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Table 4
Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8731	21699	35124	1.42	7.0E-21	AJ277557.1	NT	Homo sapiens dNT-2 gene for mitochondrial 5'(3')-deoxyribonucleotidase (dNT-2 gene), exons 1-5
9024	21990	35411	11.21	7.0E-21	D14718.1	NT	Human chromosomal protein HMG1 related gene
10472	23394	36891	0.82	7.0E-21	AW856922.1	EST_HUMAN	RCO-CT0301-271199-031-F03 CT0301 Homo sapiens cDNA
							zq73d03.s1 Soares_fetal_heart_NbHH19W Homo sapiens cDNA clone IMAGE:398981 3' similar to gb:M14338 VITAMIN K-DEPENDENT PROTEIN S PRECURSOR (HUMAN); contains THR 13 OFR repetitive element ;
11054	24017	37540	1.69	7.0E-21	AA723404.1	EST_HUMAN	Homo sapiens PTD013 protein (PTD013), mRNA
11599	24537	38094	1.67	7.0E-21	7706668	NT	
4130	17163	30052	1.68	6.0E-21	BE408611.1	EST_HUMAN	601304125F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3638310 5'
9491	22455		0.59	6.0E-21	BE162737.1	EST_HUMAN	PM1-HT0454-080100-002-109 HT0454 Homo sapiens cDNA
4390	17418	30302	3.16	5.0E-21	BE968839.1	EST_HUMAN	601649871F1 NIH_MGC_74 Homo sapiens cDNA clone IMAGE:3933680 5'
4839	17856	30753	6.18	5.0E-21	4885474	NT	Homo sapiens melanoma antigen, family C, 1 (MAGEC1), mRNA
6927	20151		0.92	5.0E-21	AW440864.1	EST_HUMAN	he03e10.x1 NCL_CGAP_CML1 Homo sapiens cDNA clone IMAGE:2918154 3'
7213	20236	33570	0.96	5.0E-21	BE866505.1	EST_HUMAN	783d11.x1 NCL_CGAP_P128 Homo sapiens cDNA clone IMAGE:3303573 3' similar to contains OFR.11 OFR repetitive element ;
10939	23859	37374	0.43	5.0E-21	Q91690	SWISSPROT	ZINC FINGER PROTEIN GLI1 (GLI-1)
10939	23859	37375	0.43	5.0E-21	Q91690	SWISSPROT	ZINC FINGER PROTEIN GLI1 (GLI-1)
12255	25081		5.38	5.0E-21	AA393574.1	EST_HUMAN	zt72c04.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:727878 5'
1748	14777	27762	1.95	4.0E-21	AA970713.1	EST_HUMAN	co86e08.s1 NCL_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1573094 3' similar to TR:Q16530 Q16530 PMS3 MRNA ; contains OFR.11 OFR repetitive element ;
7055	20077	33386	3.35	4.0E-21	AB019576.1	NT	Rattus norvegicus mRNA for rTLM, complete cds
10139	23065	36541	0.59	4.0E-21	U91328.1	NT	Human hereditary haemochromatosis region, histone 2A-like protein gene, hereditary haemochromatosis (HLA-H) gene, RoRet gene, and sodium phosphate transporter (NPT3) gene, complete cds
1854	14880	27876	1.05	3.0E-21	AA218891.1	EST_HUMAN	zq15d06.s1 Stratagene fetal retina 937202 Homo sapiens cDNA clone IMAGE:629771 3'
2282	15295	28319	1.48	3.0E-21	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
3096	16153	29066	4.17	3.0E-21	AJ007973.1	NT	Homo sapiens LGMD2B gene
5577	18673	31636	0.93	3.0E-21	AJ277557.1	NT	Homo sapiens dNT-2 gene for mitochondrial 5'(3')-deoxyribonucleotidase (dNT-2 gene), exons 1-5
5577	18673	31637	0.93	3.0E-21	AJ277557.1	NT	Homo sapiens dNT-2 gene for mitochondrial 5'(3')-deoxyribonucleotidase (dNT-2 gene), exons 1-5
5828	18918		0.74	3.0E-21	AV661044.1	EST_HUMAN	AV661044 GLC Homo sapiens cDNA clone GLCGOA10 3'
6303	19374		1.89	3.0E-21	BF184739.1	EST_HUMAN	601844465F1 NIH_MGC_54 Homo sapiens cDNA clone IMAGE:4064945 5'
7271	20006	33306	7.18	3.0E-21	BF361093.1	EST_HUMAN	RC1-OT0083-100800-019-g08 OT0083 Homo sapiens cDNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10051	22978	36445	0.77	3.0E-21	AW897760.1	EST_HUMAN	CM1-NN0063-280400-203-008 NN0063 Homo sapiens cDNA
147	13250		28.45	2.0E-21	BE163247.1	EST_HUMAN	QV3-HT0458-170200-090-g12 HT0458 Homo sapiens cDNA
1219	14257		3.29	2.0E-21	BE064410.1	EST_HUMAN	RC4-BT0311-141199-011-006 BT0311 Homo sapiens cDNA
2646	15643	28667	2.26	2.0E-21	Q28983	SWISSPROT	ZONADHESIN PRECURSOR
2646	15643	28668	2.26	2.0E-21	Q28983	SWISSPROT	ZONADHESIN PRECURSOR
5561	18658	31604	1.54	2.0E-21	AI624582.1	EST_HUMAN	ts30703.x1 NCL_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2230109 3' similar to TR:Q99854 Q99854
5656	18752	31918	0.81	2.0E-21	AA027211.1	EST_HUMAN	HYPOTHETICAL 51.1 KD PROTEIN;
5656	18752	31919	0.81	2.0E-21	AA027211.1	EST_HUMAN	ze97a12.r1 Soares_fetal_heart_NbHH19W Homo sapiens cDNA clone IMAGE:366910 5'
6149	19224	32454	0.61	2.0E-21	W44493.1	EST_HUMAN	ze97a12.r1 Soares_fetal_heart_NbHH19W Homo sapiens cDNA clone IMAGE:366910 5'
8615	21583	34999	0.48	2.0E-21	AJ010770.1	NT	zc28h02.r1 Soares_senescent_fibroblasts_NbHSF Homo sapiens cDNA clone IMAGE:323667 5'
8706	21674	35099	6.64	2.0E-21	BE141785.1	EST_HUMAN	Homo sapiens hyperion gene, exons 1-50
9175	22141	35567	3.96	2.0E-21	AU136779.1	EST_HUMAN	QV0-HT0103-091199-050-g11 HT0103 Homo sapiens cDNA
11647	24584	38152	1.72	2.0E-21	BE979829.1	EST_HUMAN	AU136779 PLACE1 Homo sapiens cDNA clone PLACE1005052 5'
11647	24584	38153	1.72	2.0E-21	BE979829.1	EST_HUMAN	601680636F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:3951008 5'
12660	25279		17.51	2.0E-21	AF176815.1	NT	601680636F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:3951008 5'
1260	14295	27259	2.06	1.0E-21	AA557657.1	EST_HUMAN	Homo sapiens putative 8-hydroxyguanine DNA glycosylase gene, complete cds
1402	14435		7.17	1.0E-21	AI601284.1	EST_HUMAN	nl46c04.s1 NCL_CGAP_P14 Homo sapiens cDNA clone IMAGE:1043718 similar to contains MER29.b2
6634	19692		2.6	1.0E-21	AL079752.1	EST_HUMAN	MER29 repetitive element;
7398	20366	33719	4.83	1.0E-21	AI223104.1	EST_HUMAN	ar88d12.x1 Barslead colon HPLRB7 Homo sapiens cDNA clone IMAGE:2152343 3'
10603	23525	37021	0.46	1.0E-21	AL163203.2	NT	DKFZp434I0830_r1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434I0830 5'
10603	23525	37022	0.46	1.0E-21	AL163203.2	NT	ig47e05.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1838336 3' similar to gb:IM64241 QM
10949	23869		1.67	1.0E-21	5730038	NT	PROTEIN (HUMAN);
12832	25514		1.32	1.0E-21	AF048133.1	NT	Homo sapiens chromosome 21 segment HS21C003
4439	17465	30355	2.03	9.0E-22	AI702438.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C003
8951	21917	35341	1.29	9.0E-22	AL163201.2	NT	Homo sapiens SET domain and mariner transposase fusion gene (SETMAR) mRNA
8951	21917	35342	1.29	9.0E-22	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
11144	24104	37631	3.13	9.0E-22	AV761874.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C001
949	14902		7.03	8.0E-22	BE144748.1	EST_HUMAN	AV761874 MDS Homo sapiens cDNA clone MDSCCG05 5'
8228	21197		3.82	8.0E-22	AA046502.1	EST_HUMAN	CN0-HT0179-281099-076-h05 HT0179 Homo sapiens cDNA
666	13731	28658	8.78	7.0E-22	AL163246.2	NT	zkg7a06.r1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:487858 5'
							Homo sapiens chromosome 21 segment HS21C046

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4312	17341	30221	2.36	7.0E-22	Q61838	SWISSPROT	ALPHA-2-MACROGLOBULIN PRECURSOR (ALPHA2M)
5078	18086	30968	0.97	7.0E-22	AB008681.1	NT	Homo sapiens gene for activin receptor type IIB, complete cds
9038	22004		2.46	7.0E-22	AF151054.1	NT	Homo sapiens HSPC220 mRNA, complete cds
9184	22150	35578	3.86	7.0E-22	M78590.1	EST_HUMAN	EST00738 Fetal brain, Stratagene (cat#386206) Homo sapiens cDNA clone HFBCF07
9961	22888	36349	1.92	7.0E-22	AF009660.1	NT	Homo sapiens T cell receptor beta locus, TCRBV7S3A2 to TCRBV12S2 region
8584	21552		1.88	6.0E-22	AW029123.1	EST_HUMAN	wx05g07.x1 NCL_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2542812 3'
5285	18291		0.72	5.0E-22	D14547.1	NT	Human DNA, SINE repetitive element
6868	19723	32998	3.05	5.0E-22	AL163303.2	NT	Homo sapiens chromosome 21 segment HS21C103
10682	23604	37098	7.82	5.0E-22	U80822.1	NT	Human dystrophin (DMD) gene, exons 7, 8 and 9, and partial cds
12775	25413		2.76	5.0E-22	BF476511.1	EST_HUMAN	naa27b06.x1 NCL_CGAP_Pr28 Homo sapiens cDNA clone IMAGE:3255898 3' similar to contains Alu repetitive element;
3650	16693		0.83	4.0E-22	AJ271735.1	NT	Homo sapiens Xq pseudoautosomal region; segment 1/2
8442	21411	34824	0.42	4.0E-22	AV703223.1	EST_HUMAN	AV703223 ADB Homo sapiens cDNA clone ADBAUE12 5'
8758	26008		3.36	4.0E-22	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
11077	24039	37563	2.15	4.0E-22	BF216030.1	EST_HUMAN	601882813F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4095434 5'
12938	25518		2.74	4.0E-22	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
980	14013		1.06	3.0E-22	A1469679.1	EST_HUMAN	tm14h10.x1 NCL_CGAP_Co14 Homo sapiens cDNA clone IMAGE:2156611 3' similar to gb:L19593 HIGH AFFINITY INTERLEUKIN-8 RECEPTOR B (HUMAN); contains L1.t1 L1 repetitive element;
2576	15577	28596	2.15	3.0E-22	A1850038.1	EST_HUMAN	w166b04.x1 NCL_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2429839 3' similar to SW:RL21_HUMAN
3686	16729		1.35	3.0E-22	D14718.1	NT	Human chromosomal protein HMG1 related gene
4838	17855	30752	2.88	3.0E-22	A1090125.1	EST_HUMAN	qb28c07.x1 Soares_pregnant1 uterus_NbHPU Homo sapiens cDNA clone IMAGE:1697580 3' similar to contains MER12.12 MER12 repetitive element;
8572	21540		1.21	3.0E-22	BE156613.1	EST_HUMAN	QV0-HT0368-090200-098-F12 HT0368 Homo sapiens cDNA
8577	21545	34984	3.4	3.0E-22	BE089841.1	EST_HUMAN	RCS-BT0707-150300-021-H10 BT0707 Homo sapiens cDNA
8703	21871	35093	0.77	3.0E-22	X60660.1	NT	R. rattus RY2G5 mRNA for a potential ligand-binding protein
8703	21871	35094	0.77	3.0E-22	X60660.1	NT	R. rattus RY2G5 mRNA for a potential ligand-binding protein
1970	14991		4.79	2.0E-22	N24942.1	EST_HUMAN	yx73d05.s1 Soares_melanocyte 2NbHM Homo sapiens cDNA clone IMAGE:267369 3'
2528	15531	28552	1.82	2.0E-22	P24916	SWISSPROT	IMMEDIATE EARLY GENE 13 PROTEIN PRECURSOR
3431	16479	29398	4.76	2.0E-22	8394043	NT	Homo sapiens protein kinase, AMP-activated, gamma 3 non-catalytic subunit (PRKAG3), mRNA
4253	17282	30163	1.26	2.0E-22	AW817794.1	EST_HUMAN	PM1-ST0262-261199-001-d12 ST0262 Homo sapiens cDNA
5951	25648	32232	1.34	2.0E-22	W39456.1	EST_HUMAN	zc20f01.r1 Soares_senescent_fibroblasts_NbHSF Homo sapiens cDNA clone IMAGE:322873 5' similar to gb:X72308 MONOCYTE CHEMOTACTIC PROTEIN 3 PRECURSOR (HUMAN);
6301	19372	32611	3.57	2.0E-22	BF082116.1	EST_HUMAN	RC0-TN0079-150900-025-h12 TN0079 Homo sapiens cDNA

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10061	22988	36456	1.61	2.0E-22	A1276522.1	EST_HUMAN	q176n06.x1 Soares_NHMP1u_S1 Homo sapiens cDNA clone IMAGE:1878289 3' similar to contains
10158	23081	36556	0.65	2.0E-22	AA715315.1	EST_HUMAN	MER29.b3 MER29 repetitive element;
10156	23081	36557	0.65	2.0E-22	AA715315.1	EST_HUMAN	nv04h11.s1 NCI_CGAP_P122 Homo sapiens cDNA clone IMAGE:1219289 3'
10991	23911	37428	0.55	2.0E-22	R15209.1	EST_HUMAN	nv04h11.s1 NCI_CGAP_P122 Homo sapiens cDNA clone IMAGE:1219289 3'
12054	24927	38525	1.58	2.0E-22	AW418960.1	EST_HUMAN	yf88c09.11 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:28740 5'
12139	25504	31705	1.92	2.0E-22	AL163280.2	NT	ha24f04.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2874655 3'
1896	14921	27917	1.76	1.0E-22	AW865517.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C080
2588	15589	28606	1.82	1.0E-22	U50871.1	NT	PM4-SN0020-010400-009-H02 SN0020 Homo sapiens cDNA
3422	16470	28360	1.49	1.0E-22	D14547.1	NT	Human familial Alzheimer's disease (STM2) gene, complete cds
5295	18300		1.5	1.0E-22	AF003528.1	NT	Human DNA, SINE repetitive element
8015	20953	34347	0.95	1.0E-22	BE084667.1	EST_HUMAN	Homo sapiens X-linked anhidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
10918	23838	37354	0.8	1.0E-22	A1365435.1	EST_HUMAN	MFR-BT0859-220200-002-H07 BT0659 Homo sapiens cDNA
10918	23838	37355	0.8	1.0E-22	A1365435.1	EST_HUMAN	qz09b07.x1 NCI_CGAP_CELL1 Homo sapiens cDNA clone IMAGE:2020881 3' similar to contains MER29.b2
12991	25551		9.05	9.0E-23	AW802801.1	EST_HUMAN	MER29 repetitive element;
3585	16630	29548	0.73	8.0E-23	AF198349.1	NT	qz09b07.x1 NCI_CGAP_CELL1 Homo sapiens cDNA clone IMAGE:2020881 3' similar to contains MER29.b2
3322	16373		1.96	7.0E-23	AV847246.1	EST_HUMAN	MER29 repetitive element;
11376	24323	37852	4.11	7.0E-23	5031952	NT	IL2-UM0076-070400-061-F11 UM0076 Homo sapiens cDNA
3447	16494		1.68	6.0E-23	AF198333.1	NT	Gallus gallus Dach2 protein (Dach2) mRNA, complete cds
4297	17326	30206	1.13	6.0E-23	AL163249.2	NT	AV847246 GLC Homo sapiens cDNA clone GLCAW007 3'
12281	25099	31834	4.64	6.0E-23	AF224869.1	NT	Homo sapiens Not58 (D. melanogaster)-like protein (NOT58L) mRNA
12281	25099	31835	4.64	6.0E-23	AF224869.1	NT	Homo sapiens RIM1B (Rim1B) mRNA, complete cds
12480	25228	31795	3.03	6.0E-23	A1209130.1	EST_HUMAN	Rattus norvegicus RIM1B (Rim1B) mRNA, complete cds
5519	18618	31552	4	5.0E-23	U82671.2	NT	Homo sapiens mannosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3
6367	25859	32679	3.55	5.0E-23	AF179818.1	NT	(UBE2D3) genes, complete cds
7671	25659	32679	3.25	5.0E-23	AF179818.1	NT	Homo sapiens mannosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3

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6580	19640	32906	1.07	3.0E-23	AL163227.2	NT	Homo sapiens chromosome 21 segment HS21C027
6590	19640	32907	1.07	3.0E-23	AL163227.2	NT	Homo sapiens chromosome 21 segment HS21C027
8171	21141	34547	4.18	3.0E-23	AA130165.1	EST_HUMAN	z85g09.r1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:503968 5' similar to contains MER29.12 MER29 repetitive element;
9604	22608	36058	2.74	3.0E-23	Z70664.1	NT	Human endogenous retroviral element HC2
9604	22608	36059	2.74	3.0E-23	Z70664.1	NT	Human endogenous retroviral element HC2
10680	23602		1.27	3.0E-23	AW897927.1	EST_HUMAN	RC3-NN0066-270400-011-h01 NN0066 Homo sapiens cDNA
667	13732	26657	3.75	2.0E-23	AJ289880.1	NT	Homo sapiens KIAA0851 gene (partial), XT3 gene and LZTFL1 gene
1145	15817		3.02	2.0E-23	M55270.1	NT	Human matrix Gla protein (MGP) gene, complete cds
2807	15799	28817	2.08	2.0E-23	P22105	SWISSPROT	TENASCIN-X PRECURSOR (TN-X) (HEXABRACHION-LIKE)
2807	15799	28818	2.08	2.0E-23	P22105	SWISSPROT	TENASCIN-X PRECURSOR (TN-X) (HEXABRACHION-LIKE)
3384	18433		1.5	2.0E-23	AI201458.1	EST_HUMAN	qs73f11.x1 NCI_CGAP_P128 Homo sapiens cDNA clone IMAGE:1943757 3' similar to TRQ13537 Q13537
3728	16771		2.97	2.0E-23	BE165980.1	EST_HUMAN	MER37 TRANSPOSABLE ELEMENT, COMPLETE CONSENSUS SEQUENCE. ;
4001	17040	28947	2.59	2.0E-23	H59931.1	EST_HUMAN	MR3-HT0487-150200-113-g01 HT0487 Homo sapiens cDNA
4001	17040	28948	2.59	2.0E-23	H59931.1	EST_HUMAN	yt16a02.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:205418 5'
5062	18072	30952	8.49	2.0E-23	D14547.1	NT	yt16a02.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:205418 5'
							Human DNA, SINE repetitive element
8205	21175		4.26	2.0E-23	AF280107.1	NT	Homo sapiens cytochrome P450 polypeptide 43 (CYP3A43) gene, partial cds; cytochrome P450 polypeptide 4 (CYP3A4) and cytochrome P450 polypeptide 7 (CYP3A7) genes, complete cds; and cytochrome P450 polypeptide 5 (CYP3A5) gene, partial cds
9195	22161	35589	1.12	2.0E-23	AL163303.2	NT	Homo sapiens chromosome 21 segment HS21C103
12262	25086		3.91	2.0E-23	M32658.1	NT	Human alcohol dehydrogenase gamma subunit (ADH3) gene, exon 1
12787	25419		2.55	2.0E-23	AF009660.1	NT	Homo sapiens T cell receptor beta locus, TORBV7S3A2 to TORBV12S2 region
4558	17581	30472	1.44	1.0E-23	AL163252.2	NT	Homo sapiens chromosome 21 segment HS21C052
4788	17816		4.76	1.0E-23	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
6882	19634		3.11	1.0E-23	BE378471.1	EST_HUMAN	601236455F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3608653 5'
8699	21667	35090	4.73	1.0E-23	AA448097.1	EST_HUMAN	zw82c06.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:782698 5' similar to contains PTR5.12 PTR5 repetitive element;
							ab75a08.s1 Stralagene fetal retina 937/202 Homo sapiens cDNA clone IMAGE:852758 3' similar to
554	13624		3.05	9.0E-24	AA663213.1	EST_HUMAN	TRIE18922 E19822 CA PROTEIN. ;
4678	17699	30586	1.15	8.0E-24	P23269	SWISSPROT	OLFACTORY RECEPTOR-LIKE PROTEIN I3
4678	17699	30587	1.15	8.0E-24	P23269	SWISSPROT	OLFACTORY RECEPTOR-LIKE PROTEIN I3
6591	19651	32922	1.34	8.0E-24		NT	Homo sapiens capping protein (actin filament) muscle Z-line, alpha 2 (CAPZA2), mRNA
8155	21093	34492	0.77	8.0E-24	11422027	NT	Homo sapiens capping protein (actin filament) muscle Z-line, alpha 2 (CAPZA2), mRNA

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Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3886	16928		1.36	7.0E-24	AW937954.1	EST_HUMAN	QV0-DT0047-170200-122-a08 DT0047 Homo sapiens cDNA
707	13769		2.31	6.0E-24	AB001421.1	NT	Macaca fasciata mRNA for Testis-Specific Protein Y (TSPY), complete cds
839	13896	26851	15.66	6.0E-24	AL163249.2	NT	Homo sapiens chromosome 21 segment HS21C049
3894	17034	28942	8.31	5.0E-24	AJ229043.1	NT	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22, segment 3/3
8034	20971	34365	1.34	5.0E-24	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
6039	18121	32326	3.63	4.0E-24	AA594178.1	EST_HUMAN	nm31h05.s1 NCI CGAP_Ga1 Homo sapiens cDNA clone IMAGE:1085529 3' similar to SW:POL_MLVK P31795 POL POLYPROTEIN
9029	21995	35415	1.29	4.0E-24	AW813711.1	EST_HUMAN	RC3-ST0197-130100-014-008 ST0197 Homo sapiens cDNA
11514	24455	38005	1.52	4.0E-24	BE544822.1	EST_HUMAN	601078812F1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3484488 5'
12644	25328	31780	5.58	4.0E-24	AB025016.1	NT	Homo sapiens mRNA for KIAA1093 protein, partial cds
12807	25713	31610	9.62	4.0E-24	M20707.1	NT	Human kappa-immunoglobulin germline pseudogene (Chr22.4) variable region (subgroup V kappa II)
12876	25509	31708	1.88	4.0E-24	11418318	NT	Homo sapiens G-2 and S-phase expressed 1 (GTSE1), mRNA
7285	20062	33368	0.6	3.0E-24	U68081.1	NT	Human germline T-cell receptor beta chain TCRBV17S1A1T, TCRBV2S1, TCRBV10S1P, TCRBV28S1P, TCRBV14S1, TCRBV19S1P, TCRBV15S1, TCRBV11S1A1T, HVB relic, TCRBV28S1P, TCRBV34S1, TCRBV14S1, TCRBV3S1, TCRBV4S1A1T, TRY4, TRY5, TRY6, TRY7, TRY8, TCRBD1, TCRBJ1S1, TCRBJ1S2, >
7285	20062	33369	0.6	3.0E-24	U68081.1	NT	Human germline T-cell receptor beta chain TCRBV17S1A1T, TCRBV2S1, TCRBV10S1P, TCRBV28S1P, TCRBV14S1, TCRBV19S1P, TCRBV15S1, TCRBV11S1A1T, HVB relic, TCRBV28S1P, TCRBV34S1, TCRBV14S1, TCRBV3S1, TCRBV4S1A1T, TRY4, TRY5, TRY6, TRY7, TRY8, TCRBD1, TCRBJ1S1, TCRBJ1S2, >
8768	21733		2.89	3.0E-24	AW614871.1	EST_HUMAN	Human germline T-cell receptor beta chain TCRBV17S1A1T, TCRBV2S1, TCRBV10S1P, TCRBV28S1P, TCRBV14S1, TCRBV19S1P, TCRBV15S1, TCRBV11S1A1T, HVB relic, TCRBV28S1P, TCRBV34S1, TCRBV14S1, TCRBV3S1, TCRBV4S1A1T, TRY4, TRY5, TRY6, TRY7, TRY8, TCRBD1, TCRBJ1S1, TCRBJ1S2, >
8822	21789		1.25	3.0E-24	AW962076.1	EST_HUMAN	Human germline T-cell receptor beta chain TCRBV17S1A1T, TCRBV2S1, TCRBV10S1P, TCRBV28S1P, TCRBV14S1, TCRBV19S1P, TCRBV15S1, TCRBV11S1A1T, HVB relic, TCRBV28S1P, TCRBV34S1, TCRBV14S1, TCRBV3S1, TCRBV4S1A1T, TRY4, TRY5, TRY6, TRY7, TRY8, TCRBD1, TCRBJ1S1, TCRBJ1S2, >
9820	22669	36128	4.11	3.0E-24	AL163252.2	NT	Human germline T-cell receptor beta chain TCRBV17S1A1T, TCRBV2S1, TCRBV10S1P, TCRBV28S1P, TCRBV14S1, TCRBV19S1P, TCRBV15S1, TCRBV11S1A1T, HVB relic, TCRBV28S1P, TCRBV34S1, TCRBV14S1, TCRBV3S1, TCRBV4S1A1T, TRY4, TRY5, TRY6, TRY7, TRY8, TCRBD1, TCRBJ1S1, TCRBJ1S2, >
12715	25369	31772	2.16	3.0E-24	BF127782.1	EST_HUMAN	Human germline T-cell receptor beta chain TCRBV17S1A1T, TCRBV2S1, TCRBV10S1P, TCRBV28S1P, TCRBV14S1, TCRBV19S1P, TCRBV15S1, TCRBV11S1A1T, HVB relic, TCRBV28S1P, TCRBV34S1, TCRBV14S1, TCRBV3S1, TCRBV4S1A1T, TRY4, TRY5, TRY6, TRY7, TRY8, TCRBD1, TCRBJ1S1, TCRBJ1S2, >
2354	15363	28385	2.8	2.0E-24	AA167539.1	EST_HUMAN	Human germline T-cell receptor beta chain TCRBV17S1A1T, TCRBV2S1, TCRBV10S1P, TCRBV28S1P, TCRBV14S1, TCRBV19S1P, TCRBV15S1, TCRBV11S1A1T, HVB relic, TCRBV28S1P, TCRBV34S1, TCRBV14S1, TCRBV3S1, TCRBV4S1A1T, TRY4, TRY5, TRY6, TRY7, TRY8, TCRBD1, TCRBJ1S1, TCRBJ1S2, >
3812	16852		0.89	2.0E-24	AA898189.1	EST_HUMAN	Human germline T-cell receptor beta chain TCRBV17S1A1T, TCRBV2S1, TCRBV10S1P, TCRBV28S1P, TCRBV14S1, TCRBV19S1P, TCRBV15S1, TCRBV11S1A1T, HVB relic, TCRBV28S1P, TCRBV34S1, TCRBV14S1, TCRBV3S1, TCRBV4S1A1T, TRY4, TRY5, TRY6, TRY7, TRY8, TCRBD1, TCRBJ1S1, TCRBJ1S2, >
7583	26001		0.61	2.0E-24	AL163209.2	NT	Human germline T-cell receptor beta chain TCRBV17S1A1T, TCRBV2S1, TCRBV10S1P, TCRBV28S1P, TCRBV14S1, TCRBV19S1P, TCRBV15S1, TCRBV11S1A1T, HVB relic, TCRBV28S1P, TCRBV34S1, TCRBV14S1, TCRBV3S1, TCRBV4S1A1T, TRY4, TRY5, TRY6, TRY7, TRY8, TCRBD1, TCRBJ1S1, TCRBJ1S2, >
7715	20672	34039	1.12	2.0E-24	AF086824.1	NT	Human germline T-cell receptor beta chain TCRBV17S1A1T, TCRBV2S1, TCRBV10S1P, TCRBV28S1P, TCRBV14S1, TCRBV19S1P, TCRBV15S1, TCRBV11S1A1T, HVB relic, TCRBV28S1P, TCRBV34S1, TCRBV14S1, TCRBV3S1, TCRBV4S1A1T, TRY4, TRY5, TRY6, TRY7, TRY8, TCRBD1, TCRBJ1S1, TCRBJ1S2, >
7720	20677	34042	0.55	2.0E-24	AJ003536.1	EST_HUMAN	Human germline T-cell receptor beta chain TCRBV17S1A1T, TCRBV2S1, TCRBV10S1P, TCRBV28S1P, TCRBV14S1, TCRBV19S1P, TCRBV15S1, TCRBV11S1A1T, HVB relic, TCRBV28S1P, TCRBV34S1, TCRBV14S1, TCRBV3S1, TCRBV4S1A1T, TRY4, TRY5, TRY6, TRY7, TRY8, TCRBD1, TCRBJ1S1, TCRBJ1S2, >
9092	22058	35484	3.09	2.0E-24	AL118158.1	EST_HUMAN	Human germline T-cell receptor beta chain TCRBV17S1A1T, TCRBV2S1, TCRBV10S1P, TCRBV28S1P, TCRBV14S1, TCRBV19S1P, TCRBV15S1, TCRBV11S1A1T, HVB relic, TCRBV28S1P, TCRBV34S1, TCRBV14S1, TCRBV3S1, TCRBV4S1A1T, TRY4, TRY5, TRY6, TRY7, TRY8, TCRBD1, TCRBJ1S1, TCRBJ1S2, >

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9130	22086		0.96	2.0E-24	H69214.1	EST_HUMAN	y92b09.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:212729 5' similar to contains MER28 repetitive element ;
10213	23138	36626	0.98	2.0E-24	A1521759.1	EST_HUMAN	ti77a09.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2138008 3'
10213	23138	36627	0.98	2.0E-24	A1521759.1	EST_HUMAN	ti77a09.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2138008 3'
12568	25947		10.03	2.0E-24	M28877.1	NT	Human O family dispersed repeat element
1705	14735	27717	2.63	1.0E-24	7706340	NT	Homo sapiens CGI-127 protein (LOC51846), mRNA
2681	15677		1.52	1.0E-24	AW820194.1	EST_HUMAN	QV0-ST0284-100400-185-c10 ST0284 Homo sapiens cDNA
3033	16091	29009	0.78	1.0E-24	D86423.1	NT	Mus musculus mRNA for HGF keratin, partial cds
4289	17328		2	1.0E-24	AF143313.1	NT	Homo sapiens PTEN (PTEN) gene, exon 2
6541	18603	32865	0.68	1.0E-24	7106336	NT	Mus musculus keratin complex-1, gene C29 (Krt1-c29), mRNA
7796	20748	34123	3.96	1.0E-24	AL163303.2	NT	Homo sapiens chromosome 21 segment HS21C103
8002	20941	34334	0.68	1.0E-24	BE144526.1	EST_HUMAN	MR0-HT0166-271199-005-c09 HT0166 Homo sapiens cDNA
8276	21245	34656	1.81	1.0E-24	AW901164.1	EST_HUMAN	CM0-NN1010-130300-281-407 NN1010 Homo sapiens cDNA
6825	19883	32961	0.52	9.0E-25	11420402	NT	Homo sapiens helicase-like protein NHL (LOC51750), mRNA
12008	24885	38480	1.53	9.0E-25	7706707	NT	Homo sapiens putative secreted protein (SIG1), mRNA
5031	18045	30927	2.85	7.0E-25	AA483944.1	EST_HUMAN	ne92e10.s1 NCI_CGAP_Kid1 Homo sapiens cDNA clone IMAGE:911754 similar to contains MER1.b2
8561	21529	34949	6.63	7.0E-25	AA468546.1	EST_HUMAN	ne06a09.s1 NCI_CGAP_Co3 Homo sapiens cDNA clone IMAGE:880408 3' similar to contains THR.b2 THR repetitive element ;
12012	24889	38486	3.24	7.0E-25	AA583540.1	EST_HUMAN	nt25h06.s1 NCI_CGAP_P71 Homo sapiens cDNA clone IMAGE:914843 similar to SW_R14A_YEAST
7184	18415		4.41	6.0E-25	W87623.1	EST_HUMAN	P38105 PROBABLE 80S RIBOSOMAL PROTEIN L14EA. ;
7992	20931	34326	10.26	6.0E-25	7305360	NT	zh65h07.r1 Soares fetal liver spleen 1NFLS_S1 Homo sapiens cDNA clone IMAGE:416989 5'
1659	14591	27667	1.67	5.0E-25	AW850271.1	EST_HUMAN	Mus musculus otogelin (Otog), mRNA
5183	18192		0.92	5.0E-25	AA984228.1	EST_HUMAN	IL3-CT0219-161199-031-D04 CT0219 Homo sapiens cDNA
11645	24582	38150	3.16	5.0E-25	AW979107.1	EST_HUMAN	cu49f01.s1 NCI_CGAP_Br2 Homo sapiens cDNA clone IMAGE:1631161 3' similar to contains Alu repetitive element ;
1441	14474	27451	2.3	4.0E-25	T98107.1	EST_HUMAN	EST1391217 MAGC resequences, MAGP Homo sapiens cDNA
3413	16461		2.68	4.0E-25	AW887671.1	EST_HUMAN	ye56h04.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:121783 5'
3923	16963	28876	0.93	4.0E-25	AF000368.1	NT	PM9-OT0093-280200-001-g07 OT0093 Homo sapiens cDNA
4345	17372		3.13	4.0E-25	BE170957.1	EST_HUMAN	Rattus norvegicus voltage-gated sodium channel mRNA, complete cds
3331	16382	29303	2.77	3.0E-25	8923321	NT	QV3-HT0543-140400-149-s11 HT0543 Homo sapiens cDNA
3331	16382	29304	2.77	3.0E-25	8923321	NT	Homo sapiens hypothetical protein FLJ20344 (FLJ20344), mRNA
5877	18966	32157	0.64	3.0E-25	U53212.1	NT	Homo sapiens hypothetical protein FLJ20344 (FLJ20344), mRNA Human degenerate channel MDEG mRNA, partial cds

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6769	19824	33107	0.66	3.0E-25	AA6035590.1	EST_HUMAN	np27b02.s1 NCI_CGAP_Pt22 Homo sapiens cDNA clone IMAGE:1117515 3' similar to gb:M61866 ZINC
8680	21648	35070	4.08	3.0E-25	AL163210.2	NT	FINGER PROTEIN 85 (HUMAN);
1350	14385	27354	2.6	2.0E-25	5032158	NT	Homo sapiens chromosome 21 segment HS21C010
2317	15328	28351	7.52	2.0E-25	BE886016.1	EST_HUMAN	Homo sapiens transducin (beta)-like 1 (TBL1) mRNA
2842	15551	28572	3.35	2.0E-25	P17008	SWISSPROT	601511530F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3913087 5'
4218	17247	30131	1.96	2.0E-25	P17008	SWISSPROT	40S RIBOSOMAL PROTEIN S16
4218	17247	30132	1.96	2.0E-25	P17008	SWISSPROT	40S RIBOSOMAL PROTEIN S16
10123	23049	36528	2.03	2.0E-25	AL449573.1	EST_HUMAN	40S RIBOSOMAL PROTEIN S16
364	13450	28378	1.4	1.0E-25	AL040228.1	EST_HUMAN	40S RIBOSOMAL PROTEIN S16
1253	14289	28468	1.34	1.0E-25	Q60355	SWISSPROT	40S RIBOSOMAL PROTEIN S16
2441	15448	28468	1.04	1.0E-25	BE162737.1	EST_HUMAN	40S RIBOSOMAL PROTEIN S16
4895	17812	30802	2.33	1.0E-25	BE162737.1	EST_HUMAN	40S RIBOSOMAL PROTEIN S16
6719	19775		0.83	1.0E-25	AA189080.1	EST_HUMAN	ATP SYNTHASE LIPID-BINDING PROTEIN P2 PRECURSOR (ATPASE PROTEIN 9)(SUBUNIT C)
6965	25678	33516	3.22	1.0E-25	AA582690.1	EST_HUMAN	PM1-HT0454-080700-002-h08 HT0454 Homo sapiens cDNA
8248	21215	34823	4.36	1.0E-25	AA709079.1	EST_HUMAN	zq45b06.s1 Stratiogene hNT neuron (#937233) Homo sapiens cDNA clone IMAGE:632627 3' similar to
9804	22856	36317	0.69	1.0E-25	X60680.1	NT	contains Alu repetitive element;
9904	22856	36318	0.69	1.0E-25	X60680.1	NT	nm54h11.s1 NCI_CGAP_Kid6 Homo sapiens cDNA clone IMAGE:1087749 3'
11316	24268	37794	2.91	1.0E-25	U93163.1	NT	z186g04.s1 Soares_fetal_heart_NBHH19M Homo sapiens cDNA clone IMAGE:384822 3' similar to contains
12278	25097	38180	1.47	1.0E-25	D14547.1	NT	PTR5.13 PTR5 repetitive element ;
12278	25097	38181	1.47	1.0E-25	D14547.1	NT	R.rattus RY2G5 mRNA for a potential ligand-binding protein
13053	25591		1.83	1.0E-25	X51755.1	NT	R.rattus RY2G5 mRNA for a potential ligand-binding protein
2491	15494	28519	1.47	9.0E-26	AL163218.2	NT	Homo sapiens IMAGE-B2 (MAGE-B2), MAGE-B3 (MAGE-B3), MAGE-B4 (MAGE-B4), and MAGE-B1
5778	18670		1.58	8.0E-26	D14547.1	NT	(MAGE-B1) genes, complete cds
1580	14613	27585	2.88	7.0E-26	AF003528.1	NT	Human DNA, SINE repetitive element
4005	17044	28952	1.21	7.0E-26	X86211.1	NT	Human DNA, SINE repetitive element
4186	17217	30103	1.69	7.0E-26	AW340153.1	EST_HUMAN	Human lambda-immunoglobulin constant region complex (germline)
5721	18815	31894	0.72	7.0E-26	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C018
11978	24855		8.08	7.0E-26	AA115895.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C002
							z330d08.r1 Stratiogene neuroepithelium NT2RAM1 937234 Homo sapiens cDNA clone IMAGE:548943 5' similar to gb:M14338 VITAMIN K-DEPENDENT PROTEIN S PRECURSOR (HUMAN);

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2234	15248	28272	2.26	6.0E-26	AF029308.1	NT	Homo sapiens chromosome 9 duplication of the T cell receptor beta locus and tyrosinogen gene families
3357	18407	28329	1.03	6.0E-26	AA206131.1	EST_HUMAN	zq52h04.r1 Stratagene neuroepithelium (#937231) Homo sapiens cDNA clone IMAGE:645271 5'
11990	24867	38482	1.91	6.0E-26	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
1181	14222	27178	1.86	5.0E-26	AI708235.1	EST_HUMAN	as38h08.x1 Barstead acrtia HPLRB6 Homo sapiens cDNA clone IMAGE:2319519 3' similar to WP:F49C12.11 CE03371 ;
1181	14222	27179	1.88	5.0E-26	AI708235.1	EST_HUMAN	as38h08.x1 Barstead acrtia HPLRB6 Homo sapiens cDNA clone IMAGE:2319519 3' similar to WP:F49C12.11 CE03371 ;
1546	14578		0.96	4.0E-26	AA329548.1	EST_HUMAN	EST33446 Embryo, 12 week II Homo sapiens cDNA 5' and WP:F49C12.11 CE03371 ;
9767	22708		3.77	4.0E-26	7657670	NT	Homo sapiens upstream binding transcription factor, RNA polymerase I (UBTF), mRNA
11022	23987	37514	2.93	4.0E-26	BE266187.1	EST_HUMAN	601191345F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3535210 5'
1773	14802	27787	2.15	3.0E-26	D14547.1	NT	Human DNA, SINE repetitive element
2019	15040	28051	1.27	3.0E-26	AL045855.2	EST_HUMAN	DKFZp3434096.r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp3434086 5'
2047	15066		3.59	3.0E-26	AA115895.1	EST_HUMAN	zn30d08.r1 Stratagene neuroepithelium NT2RAMI 937234 Homo sapiens cDNA clone IMAGE:548943 5' similar to gb:M14338 VITAMIN K-DEPENDENT PROTEIN S PRECURSOR (HUMAN);
3791	16832	29738	1.12	3.0E-26	AA152464.1	EST_HUMAN	zn30f10.r1 Stratagene colon (#937204) Homo sapiens cDNA clone IMAGE:588427 5' similar to TR:G695374 G695374 THYROID RECEPTOR INTERACTOR ;
3791	16832	29739	1.12	3.0E-26	AA152464.1	EST_HUMAN	zn30f10.r1 Stratagene colon (#937204) Homo sapiens cDNA clone IMAGE:588427 5' similar to TR:G695374 G695374 THYROID RECEPTOR INTERACTOR ;
7096	20030	33334	6.22	3.0E-26	BF245458.1	EST_HUMAN	601864963F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4083278 5'
11894	24775	38361	2.03	3.0E-26	AW875651.1	EST_HUMAN	QV2-PT0012-040400-124-e05 PT0012 Homo sapiens cDNA
11894	24775	38362	2.03	3.0E-26	AW875651.1	EST_HUMAN	QV2-PT0012-040400-124-e05 PT0012 Homo sapiens cDNA
11928	24809	38404	4.91	3.0E-26	AA583173.1	EST_HUMAN	nr37d05.s1 NCI_CGAP_GC5 Homo sapiens cDNA clone IMAGE:1086057 3' similar to contains OFR.11 OFR repetitive element ;
13101	25624	31678	1.37	3.0E-26	AF165520.1	NT	Homo sapiens phorbol 1 protein (PBI) mRNA, complete cds
682	13745	26672	10.08	2.0E-26	AL163282.2	NT	Homo sapiens chromosome 21 segment HS21C082
1884	14909		3.56	2.0E-26	AL038099.2	EST_HUMAN	DKFZp566L171.s1 566 (synonym: htkd2) Homo sapiens cDNA clone DKFZp566L171 3'
3245	16300	29225	4.92	2.0E-26	X86694.1	NT	M.musculus mRNA for astrocytic phosphoprotein, PEA-15
11105	24065		2.38	2.0E-26	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
11553	24493	38049	2.55	2.0E-26	AI801412.1	EST_HUMAN	to89a01.x1 NCI_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2185416 3' similar to contains Alu repetitive element; contains element MER20 MER20 repetitive element ;
11748	24633		1.76	2.0E-26	AF055066.1	NT	Homo sapiens MHC class I region
12097	24998	38565	1.64	2.0E-26	M32788.1	NT	Human endogenous retroviral element S71
12386	25196		1.7	2.0E-26	AB037859.1	NT	Homo sapiens mRNA for KIAA1438 protein, partial cds

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137	13242	26172	37.48	1.0E-26	BE170371.1	EST_HUMAN	QV4-HT0538-020300-123-a02 HT0538 Homo sapiens cDNA
2063	15081	28100	1.33	1.0E-26	AL039363.2	EST_HUMAN	DKFZp434H1910_r1_434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434H1910 5'
2897	15693		11.4	1.0E-26	AF261085.1	NT	Homo sapiens glyceraldehyde-3-phosphate dehydrogenase (GADPH) mRNA, complete cds
7018	20142		2.79	1.0E-26	BE165980.1	EST_HUMAN	MR3-HT0487-150200-113-g01 HT0487 Homo sapiens cDNA
11239	24192		2.12	1.0E-26	AL039487.1	EST_HUMAN	DKFZp568C2146_r1_568 (synonym: htkd2) Homo sapiens cDNA clone DKFZp568C2146 5'
12630	25968		2.65	1.0E-26	H65093.1	EST_HUMAN	CHR220032 Chromosome 22 exon Homo sapiens cDNA clone C22_45 5'
7837	20784		1.24	9.0E-27	BF371227.1	EST_HUMAN	RC6-FN0138-110800-022-A02 FN0138 Homo sapiens cDNA
9658	22815		4.04	9.0E-27	U93163.1	NT	Homo sapiens MAGE-B2 (MAGE-B2), MAGE-B3 (MAGE-B3), MAGE-B4 (MAGE-B4), and MAGE-B1 (MAGE-B1) genes, complete cds
12142	25008		5.95	9.0E-27	BF445556.1	EST_HUMAN	nas03-c07.x1 NCI_CGAP_Pr28 Homo sapiens cDNA clone IMAGE:3253644 3' similar to contains OFR.t1
11	13131	26029	4.71	8.0E-27	AI831462.1	EST_HUMAN	wj49-c04.x1 NCI_CGAP_Lut19 Homo sapiens cDNA clone IMAGE:2406150 3' similar to contains THR.b2
559	13629		4.81	8.0E-27	AL163227.2	NT	THR repetitive element ;
1414	14447	27419	30.06	8.0E-27	AW162737.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C027
1414	14447	27420	30.06	8.0E-27	AW162737.1	EST_HUMAN	au87h08.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2783295 3' similar to gb:K00558
2177	15192	28214	1.1	8.0E-27	AW864776.1	EST_HUMAN	TUBULIN ALPHA-1 CHAIN (HUMAN);
3199	16254	29174	1.17	8.0E-27	P12236	SWISSPROT	au87h08.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2783295 3' similar to gb:K00558
3384	16414	29339	0.84	8.0E-27	AF181897.1	NT	TUBULIN ALPHA-1 CHAIN (HUMAN);
5779	18871	32053	0.97	8.0E-27	AV732214.1	EST_HUMAN	PM2-SN0018-220300-002-e07 SN0018 Homo sapiens cDNA
7170	18401		2.12	8.0E-27	BE928560.1	EST_HUMAN	ADP-ATP CARRIER PROTEIN, LIVER ISOFORM T2 (ADP/ATP TRANSLOCASE 3) (ADENINE NUCLEOTIDE TRANSLOCATOR 3) (ANT 3)
7248	19983	33280	2.41	8.0E-27	N84970.1	EST_HUMAN	Homo sapiens WRN (WRN) gene, complete cds
9564	22528	35975	1.41	8.0E-27	AW857579.1	EST_HUMAN	AV732214 HTF Homo sapiens cDNA clone HTFBCB06 5'
9564	22526	35976	1.41	8.0E-27	AW857579.1	EST_HUMAN	MR4-BT0398-250800-204-d06 BT0398 Homo sapiens cDNA
684	13747		1.65	7.0E-27	Z70684.1	NT	J1751F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA clone J1751 5' similar to
5126	18135		2.05	7.0E-27	AW629172.1	EST_HUMAN	REPETITIVE ELEMENT L1
9209	22175		0.98	7.0E-27	D86984.1	NT	CM1-CT0315-091299-063-d07 CT0315 Homo sapiens cDNA
11101	24081		3.24	7.0E-27	AJ271735.1	NT	CM1-CT0315-091299-063-d07 CT0315 Homo sapiens cDNA
12759	25402		1.54	7.0E-27	AV723365.1	EST_HUMAN	Human endogenous retroviral element HC2
							hi51h12.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2975879 3' similar to TR:O76040
							O76040 ORF2: FUNCTION UNKNOWN ;
							Human mRNA for KIAA0231 gene, partial cds
							Homo sapiens Xq pseudautosomal region; segment 1/2
							AV723365 HTB Homo sapiens cDNA clone HTBAHE02 5'

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Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11080	24042	37565	10.71	6.0E-27	M26897.1	NT	Human nucleolar protein (B23) mRNA, complete cds
8055	20992		0.79	5.0E-27	AL163303.2	NT	Homo sapiens chromosome 21 segment HS21C103
10597	23519	37010	3.37	5.0E-27	BF666814.1	EST_HUMAN	602121491F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4278527 5'
10597	23519	37011	3.37	5.0E-27	BF666814.1	EST_HUMAN	602121491F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4278527 5'
6908	19860	33256	1.72	4.0E-27	9810568	NT	Mus musculus sperm tail associated protein (Slap), mRNA
8271	21240		1.22	4.0E-27	AL163309.2	NT	Homo sapiens chromosome 21 segment HS21C009
8316	21285		1.25	4.0E-27	AF078779.1	NT	Rattus norvegicus putative four repeat ion channel mRNA, complete cds
10101	23027	36504	0.72	4.0E-27	AW880859.1	EST_HUMAN	QV0-OT0033-070300-152-b10 OT0033 Homo sapiens cDNA
11929	24810	38405	1.98	4.0E-27	X89211.1	NT	H. sapiens DNA for endogenous retroviral like element
2057	15076	28096	4.38	3.0E-27	X60658.1	NT	R. rattus RYA3 mRNA for a potential ligand-binding protein
4300	17329	30209	1.08	3.0E-27	BE071924.1	EST_HUMAN	PMO-BT0527-080100-001-c111 BT0527 Homo sapiens cDNA
5419	18522	31400	5.66	3.0E-27	AA077705.1	EST_HUMAN	7B44C08 Chromosome 7 Fetal Brain cDNA Library Homo sapiens cDNA clone 7B44C08
8089	21025	34424	0.57	3.0E-27	BE070351.1	EST_HUMAN	7e33f02.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3284283 3'
9660	22817	36271	4.46	3.0E-27	BF035327.1	EST_HUMAN	601458531F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3862086 5'
43	13163	26066	9.25	2.0E-27	AF054187.1	NT	Homo sapiens alpha NAC mRNA, complete cds
1911	14935		24.32	2.0E-27	AA565345.1	EST_HUMAN	nk01b10.s1 NCI_CGAP_Pt11 Homo sapiens cDNA clone IMAGE:1000699 similar to gb:IM17886 60S
3126	16183		10.81	2.0E-27	AW629172.1	EST_HUMAN	ACIDIC RIBOSOMAL PROTEIN P1 (HUMAN); h151h12.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2975879 3' similar to TR:O76040 O76040 ORF2: FUNCTION UNKNOWN. ;
3238	16293	29215	1.61	2.0E-27	AF111167.2	NT	Homo sapiens jun dimerization protein gene, partial cds; cfos gene, complete cds; and unknown gene
3238	16293	29216	1.61	2.0E-27	AF111167.2	NT	Homo sapiens jun dimerization protein gene, partial cds; cfos gene, complete cds; and unknown gene
6833	19886	33179	0.72	2.0E-27	H02655.1	EST_HUMAN	y36601.r1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:150840 5' similar to SP:HMGC_MOUSE_002591 HOMEBOX PROTEIN ;
8427	21396	34807	1.44	2.0E-27	A186347.1	EST_HUMAN	w128g07.x1 NCI_CGAP_U11 Homo sapiens cDNA clone IMAGE:2426268 3'
9624	22568		2.61	2.0E-27	AA551527.1	EST_HUMAN	nh08h05.s1 NCI_CGAP_Thy1 Homo sapiens cDNA clone IMAGE:943737 similar to contains L1.13 L1 repetitive element ;
10151	23078	36552	0.78	2.0E-27	X60658.1	NT	R. rattus RYA3 mRNA for a potential ligand-binding protein
10395	23317	36797	1.32	2.0E-27	M78590.1	EST_HUMAN	EST00739 Fetal brain, Striatogene (cat#836206) Homo sapiens cDNA clone HFBFCF07
10395	23317	36798	1.32	2.0E-27	M78590.1	EST_HUMAN	EST00739 Fetal brain, Striatogene (cat#836206) Homo sapiens cDNA clone HFBFCF07
11302	24252	37778	2.97	2.0E-27	AU121685.1	EST_HUMAN	AU121685 MAMMA1 Homo sapiens cDNA clone MAMMA1000746 5'
11816	14935		19.93	2.0E-27	AA565345.1	EST_HUMAN	nk01b10.s1 NCI_CGAP_Pt11 Homo sapiens cDNA clone IMAGE:1000699 similar to gb:IM17886 60S ACIDIC RIBOSOMAL PROTEIN P1 (HUMAN);

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
436	13510		2.28	1.0E-27	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
998	14049	27002	1.58	1.0E-27	AB026898.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
1707	14738	27720	0.95	1.0E-27	4827059	NT	Homo sapiens xylulokinase (H. influenzae) homolog (XYLB) mRNA
4108	17142		1.08	1.0E-27	BE350127.1	EST_HUMAN	MER29 repetitive element;
6694	19751	33028	5.21	1.0E-27	6005855	NT	Homo sapiens Retina-derived POU-domain factor-1 (RPF-1), mRNA
7054	20076	33384	2.01	1.0E-27	F30158.1	EST_HUMAN	HSPD20461 HM3 Homo sapiens cDNA clone s4000095C10
7054	20076	33385	2.01	1.0E-27	F30158.1	EST_HUMAN	HSPD20461 HM3 Homo sapiens cDNA clone s4000095C10
8957	21923	33351	0.71	1.0E-27	AB007923.1	NT	Homo sapiens mRNA for KIAA0454 protein, partial cds
9337	22302		2.33	1.0E-27	BE079780.1	EST_HUMAN	RC8-BT0627-140200-011-E06 BT0627 Homo sapiens cDNA
10080	23007	36478	2.7	1.0E-27	D67449.1	NT	Human mRNA for KIAA0260 gene, partial cds
12016	24893	38490	3.73	1.0E-27	AF111093.1	NT	Bos taurus latrophilin 3 splice variant bbah mRNA, complete cds
143	13245		2.16	9.0E-28	BE348399.1	EST_HUMAN	hw17c11.x1 NCI CGAP Lu24 Homo sapiens cDNA clone IMAGE:3183188 3' similar to TR:Q07314 Q07314
311	13403	26329	2.64	9.0E-28	AU126260.1	EST_HUMAN	SECRETED NEUREXIN III-ALPHA-C PRECURSOR. [3] TR:Q07280 TR:Q07313 ;
4817	17834	30732	1.08	9.0E-28	P50447	SWISSPROT	AU126260 NT2RP1 Homo sapiens cDNA clone NT2RP1000443 5'
12222	25059		3.71	9.0E-28	BF377859.1	EST_HUMAN	ALPHA-1-ANTITRYPSIN PRECURSOR (ALPHA-1 PROTEASE INHIBITOR) (ALPHA-1-ANTIPROTEINASE)
12553	25817		1.9	8.0E-28	AW157571.1	EST_HUMAN	CM2-TN0140-070900-372-g01 TN0140 Homo sapiens cDNA
1185	14226		8.96	7.0E-28	AU142750.1	EST_HUMAN	au83108.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2782911 3' similar to TR:O60302 O60302 KIAA0555 PROTEIN ; contains element MER22 repetitive element ;
11520	24461	38012	2.43	7.0E-28	11417866	EST_HUMAN	AU142750 Y79AA1 Homo sapiens cDNA clone Y79AA1000824 5'
12181	25029		2.98	7.0E-28	AV735348.1	EST_HUMAN	Homo sapiens gamma-glutamyltransferase-like activity 1 (GGTLA1), mRNA
9271	22237		1.09	6.0E-28	AF016052.1	NT	AV735348 CB Homo sapiens cDNA clone CBFACA12 5'
12806	25433		3.82	6.0E-28	AA504562.1	EST_HUMAN	Homo sapiens zinc finger protein ZNF191 (ZNF191) gene, complete cds
318	13410		3.1	5.0E-28	A1921003.1	EST_HUMAN	aa60e03.r1 NCI CGAP GC81 Homo sapiens cDNA clone IMAGE:825340 5' similar to contains Alu repetitive element; contains element PTR5 repetitive element ;
4035	17073	29973	1.52	5.0E-28	R79762.1	EST_HUMAN	wo18c07.x1 NCI CGAP Pan1 Homo sapiens cDNA clone IMAGE:2455692 3' similar to contains THR.b1 THR repetitive element ;
2633	15632	28657	1.48	4.0E-28	AW195066.1	EST_HUMAN	y89f10.r1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:146443 5'
2989	16047	28967	1.18	4.0E-28	4505316	EST_HUMAN	xn33c09.x1 NCI CGAP Kid11 Homo sapiens cDNA clone IMAGE:2695504 3' similar to SW:GG85_HUMAN Q08379 GOLGIN-95 ;
3125	16182	28082	1.93	4.0E-28	BE409100.1	EST_HUMAN	Homo sapiens myosin phosphatase, target subunit 1 (MYPT1), mRNA
							601300703F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3635305 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7551	20514	33872	2.45	4.0E-28	A198941.1	EST_HUMAN	qf66f10.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1755019 3' similar to gb:M19503 LINE-1 REVERSE TRANSCRIPTASE HOMOLOG (HUMAN);
11213	24166		3.51	4.0E-28	AF029308.1	NT	Homo sapiens chromosome 9 duplication of the T cell receptor beta locus and trypsinogen gene families
11349	24299		38.65	4.0E-28	AB038241.1	NT	Felis catus GAPDH mRNA for glyceraldehyde-3-phosphate dehydrogenase, complete cds
11364	20514	33872	3.87	4.0E-28	A198941.1	EST_HUMAN	qf66f10.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1755019 3' similar to gb:M19503 LINE-1 REVERSE TRANSCRIPTASE HOMOLOG (HUMAN);
12599	25301		1.86	4.0E-28	AW854244.1	EST_HUMAN	RC3-CT0254-240400-210-F12 CT0254 Homo sapiens cDNA
1288	14323		2.61	3.0E-28	AF155382.1	NT	Homo sapiens metalloproteinase-like, disintegrin-like, cysteine-rich protein 2 epsilon (ADAM22) mRNA, complete cds
9179	22145	35572	1.94	3.0E-28	BF354030.1	EST_HUMAN	MR3-HT0713-280500-013-09 HT0713 Homo sapiens cDNA
11282	24232	37758	2.14	3.0E-28	U53588.1	NT	Homo sapiens MHC class 1, region
12628	25315		2.92	3.0E-28	A1831991.1	EST_HUMAN	wj98f07.x1 NCI_CGAP_Lym12 Homo sapiens cDNA clone IMAGE:2410885 3' similar to contains Alu repetitive element; contains element HGR repetitive element;
89	13205	26129	11.64	2.0E-28	BE062167.1	EST_HUMAN	RC1-BT0254-220300-019-c05 BT0254 Homo sapiens cDNA
1047	14083	27045	4.14	2.0E-28	4501912	NT	Homo sapiens a disintegrin and metalloproteinase domain 23 (ADAM23) mRNA
1169	14210	27164	12.37	2.0E-28	Y11107.3	NT	Homo sapiens ITGB4 gene for integrin beta 4 subunit, exons 3-41
2485	15489	28513	2.27	2.0E-28	A1348634.1	EST_HUMAN	qf35b08.x1 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1910483 3' similar to contains L1.b2 L1 repetitive element;
3373	16423	29348	0.76	2.0E-28	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
6440	19505	32756	1.48	2.0E-28	BF224402.1	EST_HUMAN	hr76c03.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3134404 3' similar to contains LOR1.b1 LOR1 repetitive element;
6464	19529		6.46	2.0E-28	BF212905.1	EST_HUMAN	601814196F1 NIH_MGC_54 Homo sapiens cDNA clone IMAGE:4048751 5'
8379	21348	34760	0.78	2.0E-28	AF005273.1	NT	Sus scrofa domestica submaxillary apomucin mRNA, complete cds
8943	22870		8.68	2.0E-28	AW972305.1	EST_HUMAN	EST384394 IMAGE resequences, MAGL Homo sapiens cDNA
11936	24817	38414	1.92	2.0E-28	AF224669.1	NT	Homo sapiens mannosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3 (UBE2D3) genes, complete cds
12609	25308		2.06	2.0E-28	H06376.1	EST_HUMAN	yf96c09.r1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:44300 5'
1474	14507	27481	3.15	1.0E-28	D38044.1	NT	Human gene for Ah-receptor, exon 7-9
2229	15243	28268	1.84	1.0E-28	BF333236.1	EST_HUMAN	QV1-BT0821-120900-360-503 BT0821 Homo sapiens cDNA
2692	15688	28705	0.92	1.0E-28	AF000995.1	NT	Homo sapiens ubiquitous TPR motif, Y isoform (UTY) mRNA, alternative transcript 2, complete cds
4985	18000	30889	0.64	1.0E-28	AV732194.1	EST_HUMAN	AV732194 HTF Homo sapiens cDNA clone HTFBIH05 5'
8193	21163		8.03	1.0E-28	11429855	NT	Homo sapiens similar to ribosomal protein L12 (H. sapiens) (LOC63091), mRNA
8352	21321		3.37	1.0E-28	8922793	NT	Homo sapiens hypothetical protein FLJ10968 (FLJ10968), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9633	22577	36027	4.47	1.0E-28	AA308744.1	EST_HUMAN	EST179615 HCC cell line (metastasis to liver in mouse) II Homo sapiens cDNA 5' end similar to similar to retroviral LTR
10235	23160	36648	6.47	1.0E-28	4758431	NT	Homo sapiens gamma-glutamyltransferase-like activity 1 (GGT1A1), mRNA
10235	23160	36649	6.47	1.0E-28	4758431	NT	Homo sapiens gamma-glutamyltransferase-like activity 1 (GGT1A1), mRNA
12186	25033		4.36	1.0E-28	AA054182.1	EST_HUMAN	Z51c01.11 Soares retina N2b4HR Homo sapiens cDNA clone IMAGE:390448 5'
12831	25716		2.58	1.0E-28	AL163247.2	NT	Homo sapiens chromosome 21 segment HS21C047
13037	25918	31302	3.46	9.0E-29	AW663987.1	EST_HUMAN	h176g06.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2978266 3'
12713	25367		3.12	8.0E-29	Q00130	SWISSPROT	HYPOTHETICAL GENE 50 PROTEIN
1606	14636	27615	1.04	7.0E-29	AW966447.1	EST_HUMAN	EST378521 IMAGE resequences, MAGI Homo sapiens cDNA
3564	16610		0.9	7.0E-29	BE254708.1	EST_HUMAN	601114990F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3355387 5'
13086	25616		9.37	7.0E-29	AJ132352.1	NT	Rattus norvegicus mRNA for 45 kDa secretory protein, partial
597	13684	26578	6.67	6.0E-29	AI936748.1	EST_HUMAN	wp69b01.x1 NCI_OGAP_Brn25 Homo sapiens cDNA clone IMAGE:2466985 3' similar to TR:O15475
12489	25234		8.12	6.0E-29	BE940436.1	EST_HUMAN	O15475 UNNAMED HERV-H PROTEIN :contains LTR7.b1 LTR7 repetitive element ;
12574	25284		1.97	6.0E-29	BF568097.1	EST_HUMAN	RC3-UT0062-210800-021-c05 UT0062 Homo sapiens cDNA
5033	18047		1.34	5.0E-29	AL163203.2	NT	602184092F1 NIH_MGC_42 Homo sapiens cDNA clone IMAGE:4300079 5'
9083	22049		8.5	5.0E-29	AW887541.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C003
3246	16301		1.33	4.0E-29	AI752357.1	EST_HUMAN	RC3-OT0091-170300-011-c12 OT0091 Homo sapiens cDNA
6125	19203		5.91	4.0E-29	BE164930.1	EST_HUMAN	cn15c02.x1 Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NHTBC.cn15c02 random
8417	21386	34794	0.92	4.0E-29	AI678101.1	EST_HUMAN	QV1-HT0471-280300-121-a05 HT0471 Homo sapiens cDNA
8417	21386	34795	0.92	4.0E-29	AI678101.1	EST_HUMAN	wd35g06.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2330170 3' similar to contains
9097	22063	35488	2.97	4.0E-29	JO4988.1	NT	MER29.12 MER29 repetitive element ;
2379	15387	28411	0.94	3.0E-29	U67847.1	NT	Human 90 kD heat shock protein gene, complete cds
4444	17470	30359	1.61	3.0E-29	AB042297.1	NT	Human beta-galactoside alpha2,6-sialyltransferase (SIAT1) mRNA, exon U
4784	17784	30680	0.94	3.0E-29	BF333236.1	EST_HUMAN	Homo sapiens PTS gene for 6-pyruvoyltetrahydropterin synthase, complete cds
6040	19122	32327	0.77	3.0E-29	BE314018.1	EST_HUMAN	QV1-BT0821-120900-360-b03 BT0821 Homo sapiens cDNA
9085	22051	35473	2.19	3.0E-29	D38044.1	NT	601152857F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3508527 5'
9655	22598	36047	1.97	3.0E-29	AW303317.1	EST_HUMAN	Human gene for ATR-receptor, exon 7-9
9889	22842		2.2	3.0E-29	AL163246.2	NT	xv1703.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2813405 3' similar to contains Alu repetitive element; contains MER19.12 MER19 repetitive element ;
							Homo sapiens chromosome 21 segment HS21C048

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Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10318	23242		0.73	3.0E-29	BE350127.1	EST_HUMAN	h09g01.x1 NCI_CGAP_Kid13 Homo sapiens cDNA clone IMAGE:3146256 3' similar to contains MER29.b3
12385	25163		2.34	3.0E-29	D63882.1	NT	MER29 repetitive element ;
493	13565	26487	1.68	2.0E-29	AF084869.1	NT	Human HsLIM15 mRNA for HsLIM15, complete cds
493	13565	26488	1.68	2.0E-29	AF084869.1	NT	Homo sapiens envelope protein RIC-6 (env) gene, complete cds
1535	14568	27538	7.19	2.0E-29	AI963604.1	EST_HUMAN	wf65d10.x1 NCI_CGAP_U11 Homo sapiens cDNA clone IMAGE:2492563 3' similar to TR:O15546 O15546
1535	14568	27539	7.19	2.0E-29	AI963604.1	EST_HUMAN	HERV-E ENVELOPE GLYCOPROTEIN ;
4308	17337	30215	2.4	2.0E-29	AL163268.2	NT	Homo sapiens chromosome 21 segment HS21C068
5251	18259	31128	0.99	2.0E-29	O54827	SWISSPROT	POTENTIAL PHOSPHOLIPID-TRANSPORTING ATPASE VA
5824	19010	32203	1.08	2.0E-29	AI082459.1	EST_HUMAN	os71e04.x1 NCI_CGAP_GC2 Homo sapiens cDNA clone IMAGE:1610814 3' similar to contains L1.L2 L1
6304	19375	32613	1.22	2.0E-29	AI0806418.1	EST_HUMAN	repetitive element ;
7608	19375	32613	1.18	2.0E-29	AI0806418.1	EST_HUMAN	wf27g07.x1 Soares NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2356860 3' similar to contains
8309	21278	34690	1.04	2.0E-29	BE867157.1	EST_HUMAN	element MER6 repetitive element ;
8924	21890	35317	0.63	2.0E-29	10567821	NT	wf27g07.x1 Soares NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2356860 3' similar to contains
8924	21890	35318	0.63	2.0E-29	10567821	NT	element MER6 repetitive element ;
9866	22802	36255	3.5	2.0E-29	AL163248.2	NT	601442206F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3846648 5'
9866	22802	36256	3.5	2.0E-29	AL163248.2	NT	Homo sapiens DNA-binding protein (LOC56242), mRNA
10599	23521	37013	3.27	2.0E-29	AL163248.2	NT	Homo sapiens DNA-binding protein (LOC56242), mRNA
10599	23521	37014	3.27	2.0E-29	AL163248.2	NT	Homo sapiens chromosome 21 segment HS21C048
11806	24892		4.13	2.0E-29	11425108	NT	Homo sapiens chromosome 21 segment HS21C048
11844	24727		2.03	2.0E-29	AW880701.1	EST_HUMAN	Homo sapiens splicing factor similar to dnal (SPF31), mRNA
9144	22110	35536	10.17	1.0E-29	AW983880.1	EST_HUMAN	QV0-OT0032-080300-155-d01 OT0032 Homo sapiens cDNA
10986	23806	37420	0.59	1.0E-29	X606658.1	NT	RC1-HIN0003-220300-021-504 HN0003 Homo sapiens cDNA
6734	19790	33070	3.26	9.0E-30	AA761215.1	EST_HUMAN	Rattus RY3A3 mRNA for a potential ligand-binding protein
12263	25087		2.14	9.0E-30	11422745	NT	nz20cd07.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1298332 3' similar to contains MER4.b1
8452	19517		9.62	8.0E-30	F08698.1	EST_HUMAN	MER4 repetitive element ;
8513	21581	34987	3.18	8.0E-30	AA383873.1	EST_HUMAN	Homo sapiens zinc/iron regulated transporter-like (ZIRT), mRNA
9031	21997	35416	3.9	8.0E-30	AI557072.1	EST_HUMAN	HSC23F051 normalized infant brain cDNA Homo sapiens cDNA clone c-23f05
							EST97317 Thymus 1 Homo sapiens cDNA 5' end similar to EST containing O family repeat
							PT2.1_13_B11.tumor2 Homo sapiens cDNA 3'

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Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1518	14550		1.02	7.0E-30	BE081133.1	EST_HUMAN	PM4-BT0724-150400-004-d11 BT0724 Homo sapiens cDNA
1571	14804		1.4	6.0E-30	X51755.1	NT	Human lambda-immunoglobulin constant region complex (germline)
1788	14817	27802	1.8	6.0E-30	D25303.1	NT	Human mRNA for integrin alpha subunit, complete cds
3204	16259	29178	2.51	6.0E-30	BE008026.1	EST_HUMAN	QV0-BN0147-280400-214-f12 BN0147 Homo sapiens cDNA
4791	16259	29178	1.02	6.0E-30	BE008026.1	EST_HUMAN	QV0-BN0147-280400-214-f12 BN0147 Homo sapiens cDNA
10905	23825	37337	0.74	6.0E-30	AF177227.1	NT	Homo sapiens CTCL tumor antigen s620-10 mRNA, partial cds
13054	14804		4.35	6.0E-30	X51755.1	NT	Human lambda-immunoglobulin constant region complex (germline)
4041	17079	29979	32.98	5.0E-30	A1399992.1	EST_HUMAN	ig2g03.x1 NCI_CGAP CLL1 Homo sapiens cDNA clone IMAGE:2116276 3' similar to contains Alu repetitive element;
5310	25746		4.98	5.0E-30	U87931.1	NT	Human aconitase hydratase (ACO2) gene, exon 7
11233	24186		2.21	5.0E-30	AL163278.2	NT	Homo sapiens chromosome 21 segment HS21C078
11489	24432	37981	2.03	5.0E-30	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
11489	24432	37982	2.03	5.0E-30	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
2153	15169	28185	1.79	4.0E-30	AW937471.1	EST_HUMAN	QV3-DT0043-090200-080-c06 DT0043 Homo sapiens cDNA
2153	15169	28188	1.79	4.0E-30	AW937471.1	EST_HUMAN	QV3-DT0043-090200-080-c06 DT0043 Homo sapiens cDNA
7035	18367	31254	0.55	4.0E-30	P11369	SWISSPROT	RETROVIRUS-RELATED POL POLYPROTEIN [CONTAINS: REVERSE TRANSCRIPTASE ; ENDONUCLEASE]
9256	22222	35852	2.5	4.0E-30	AW812488.1	EST_HUMAN	CM1-ST0181-081199-035-f08 ST0181 Homo sapiens cDNA
1154	14186		4.51	3.0E-30	A1398551.1	EST_HUMAN	qp93c05.x1 Soares_tet1_9w Homo sapiens cDNA clone IMAGE:1838920 3' similar to contains MER29 b2 MER29 repetitive element ;
3770	18812	29721	1.03	3.0E-30	AF128893.1	NT	Homo sapiens telomerase reverse transcriptase (TERT) gene, exons 1-6
7470	20436	33793	0.5	3.0E-30	T18862.1	EST_HUMAN	b12056t Testis 1 Homo sapiens cDNA clone b12056
8284	21253		0.52	3.0E-30	AF078779.1	NT	Rattus norvegicus putative four repeat ion channel mRNA, complete cds
8831	21798		0.44	3.0E-30	AF078779.1	NT	Rattus norvegicus putative four repeat ion channel mRNA, complete cds
10800	23721	37224	2.18	3.0E-30	BE350127.1	EST_HUMAN	h09g01.x1 NCI_CGAP_K1d13 Homo sapiens cDNA clone IMAGE:3146256 3' similar to contains MER29 b3
10932	23852	37366	0.52	3.0E-30	AB032969.1	NT	Homo sapiens mRNA for KIAA1143 protein, partial cds
10932	23852	37367	0.52	3.0E-30	AB032969.1	NT	Homo sapiens mRNA for KIAA1143 protein, partial cds
11541	24482	38034	5.69	3.0E-30	P34056	SWISSPROT	TRANSCRIPTION FACTOR AP-2
676	13739	26666	1.57	2.0E-30	AW857315.1	EST_HUMAN	CM0-CT0307-310100-198-H03 CT0307 Homo sapiens cDNA
1086	14130		3.03	2.0E-30	F08888.1	EST_HUMAN	HSC23F051 normalized infant brain cDNA Homo sapiens cDNA clone c-23F05
1475	14508	27482	5.36	2.0E-30	BE175877.1	EST_HUMAN	RC5-HT0582-110400-013-H08 HT0582 Homo sapiens cDNA
2727	15721	28738	11.19	2.0E-30	BE176832.1	EST_HUMAN	IL2-NT0101-280700-116-E04 NT0101 Homo sapiens cDNA
2930	15988	28809	8.11	2.0E-30	AF114156.1	NT	Homo sapiens Y-linked zinc finger protein (ZFY) gene, complete cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3803	16843	29751	2.1	2.0E-30	AW206581.1	EST_HUMAN	UI-H-B1-af-c-12-U-UI.s1 NCI CGAP Sub3 Homo sapiens cDNA clone IMAGE:2722558 3'
4812	17829	30726	1.76	2.0E-30	BE288945.1	EST_HUMAN	601119860F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3029438 5'
4812	17829	30727	1.76	2.0E-30	BE288945.1	EST_HUMAN	601119860F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3029438 5'
6922	19972	33269	0.71	2.0E-30	BF306337.1	EST_HUMAN	601893208F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4138993 5'
8820	21787	35211	0.69	2.0E-30	AA019103.1	EST_HUMAN	2e58c10.r1 Soares retina N2b4HR Homo sapiens cDNA clone IMAGE:363186 5'
8882	21849	35270	7.02	2.0E-30	C18939.1	EST_HUMAN	C18939 Human placenta cDNA (TFujiwara) Homo sapiens cDNA clone GEN-570C01 5'
8882	21848	35371	3.99	2.0E-30	BE670617.1	EST_HUMAN	7e37c12.x1 NCI CGAP Lu24 Homo sapiens cDNA clone IMAGE:3284682 3' similar to SW:DHSA_HUMAN P31040 SUCCINATE DEHYDROGENASE [UBIQUINONE] FLAVOPROTEIN SUBUNIT PRECURSOR ;
8882	21848	35372	3.99	2.0E-30	BE670617.1	EST_HUMAN	7e37c12.x1 NCI CGAP Lu24 Homo sapiens cDNA clone IMAGE:3284682 3' similar to SW:DHSA_HUMAN P31040 SUCCINATE DEHYDROGENASE [UBIQUINONE] FLAVOPROTEIN SUBUNIT PRECURSOR ;
10356	23280	36756	3.88	2.0E-30	AW971568.1	EST_HUMAN	EST1383657 MAGC resequences, MAGL Homo sapiens cDNA
10442	23364	36854	8.55	2.0E-30	AW470791.1	EST_HUMAN	ha33d06.x1 NCI CGAP Kid12 Homo sapiens cDNA clone IMAGE:2875499 3' similar to contains THR.b3 THR repetitive element ;
286	13381	26309	19.55	1.0E-30	C18939.1	EST_HUMAN	C18939 Human placenta cDNA (TFujiwara) Homo sapiens cDNA clone IMAGE:2910991 3' similar to contains MER1.b3 MER1 MER1 repetitive element ;
539	13610	26529	7.04	1.0E-30	AW468897.1	EST_HUMAN	hd30b04.x1 Soares NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2910991 3' similar to contains MER1.b3 MER1 MER1 repetitive element ;
717	13779	26713	1.23	1.0E-30	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
2222	15236	28260	3.82	1.0E-30	AA664377.1	EST_HUMAN	ac77b08.s1 Stratagene lung (#937210) Homo sapiens cDNA clone IMAGE:868599 3'
2469	15473	28496	2.39	1.0E-30	BF347728.1	EST_HUMAN	602022560F1 NCI CGAP Bm67 Homo sapiens cDNA clone IMAGE:4157891 5'
3067	16124	28037	1.12	1.0E-30	AA315045.1	EST_HUMAN	EST186868 HCC cell line (metastasis to liver in mouse) II Homo sapiens cDNA 5' end
7995	20934	34328	2.08	1.0E-30	BF183230.1	EST_HUMAN	601809932F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:4040694 5'
12862	25841		11.93	1.0E-30	H55593.1	EST_HUMAN	CHR220532 Chromosome 22 exon Homo sapiens cDNA clone C22_728 5'
8667	21635	35056	0.92	9.0E-31	R18214.1	EST_HUMAN	yf99b08.r1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:30566 5' similar to gb:X12953 RAS- RELATED PROTEIN RAB-2 (HUMAN);
8667	21635	35057	0.92	9.0E-31	R18214.1	EST_HUMAN	yf99b08.r1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:30566 5' similar to gb:X12953 RAS- RELATED PROTEIN RAB-2 (HUMAN);
8971	21937		1.79	9.0E-31	Z38293.1	EST_HUMAN	HSC05F032 normalized infant brain cDNA Homo sapiens cDNA clone c-05f03 3'
8973	21839	35364	0.49	9.0E-31	AF078779.1	NT	Rattus norvegicus putative four repeat ion channel mRNA, complete cds
1078	14123	27076	1.82	8.0E-31	8923389	NT	Homo sapiens hypothetical protein FLJ20420 (FLJ20420), mRNA
2423	15430		5.96	8.0E-31	AL163208.2	NT	Homo sapiens chromosome 21 segment HS21C008
4955	17970	30860	1.12	8.0E-31	P23275	SWISSPROT	OLFACTORY RECEPTOR 15 (OR3)
4955	17970	30861	1.12	8.0E-31	P23275	SWISSPROT	OLFACTORY RECEPTOR 15 (OR3)

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
712	13774		1.99	7.0E-31	AA372637.1	EST_HUMAN	EST845555 Colon adenocarcinoma IV Homo sapiens cDNA 5' and
2676	15672	28691	2.38	7.0E-31	BE326517.1	EST_HUMAN	hw05a11.x1 NCI CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3182012 3'
2676	15672	28692	2.38	7.0E-31	BE326517.1	EST_HUMAN	hw05a11.x1 NCI CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3182012 3'
8744	21712	35133	0.99	7.0E-31	AF208541.1	NT	Homo sapiens V1-vascular vasopressin receptor AVPR1A gene, promoter region and partial cds
8744	21712	35134	0.99	7.0E-31	AF208541.1	NT	Homo sapiens V1-vascular vasopressin receptor AVPR1A gene, promoter region and partial cds
9621	22565		0.92	7.0E-31	BE408611.1	EST_HUMAN	601304125F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3638310 5'
12711	26366	31771	5.66	7.0E-31	X51755.1	NT	Human lambda-immunoglobulin constant region complex (germline)
3691	16734		3.06	6.0E-31	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
8493	21461		7.57	6.0E-31	AF055066.1	NT	Homo sapiens MHC class 1 region
8674	21642	35067	0.7	6.0E-31	BE350127.1	EST_HUMAN	h09q01.x1 NCI CGAP_Kid13 Homo sapiens cDNA clone IMAGE:3148256 3' similar to contains MER29.b3
11090	24050	37573	1.86	6.0E-31	AU119105.1	EST_HUMAN	MER29 repetitive element ;
12325	25127	31848	2.27	6.0E-31	AW372868.1	EST_HUMAN	AU119105 HEMBA1 Homo sapiens cDNA clone HEMBA1005050 5'
12456	25764		2.08	6.0E-31	BE894488.1	EST_HUMAN	RC5-BT0377-091289-031-D12 BT0377 Homo sapiens cDNA
194	13295	26222	2.83	5.0E-31	M60694.1	NT	601433087F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3918524 5'
194	13295	26223	2.83	5.0E-31	M60694.1	NT	Homo sapiens type I DNA topoisomerase gene, exon 8
8788	21755		1.46	5.0E-31	BF056540.1	EST_HUMAN	Homo sapiens type I DNA topoisomerase gene, exon 8
598	13665		3.45	4.0E-31	AJ271735.1	NT	7k06f04.x1 NCI CGAP_G08 Homo sapiens cDNA clone IMAGE:3443479 3' similar to TR:Q13537 Q13537 SIMILAR TO POGO ELEMENT ; contains L1.1 L1 repetitive element ;
							Homo sapiens Xq pseudautosomal region; segment 1/2
1815	14647	27622	1.01	4.0E-31	Q10473	SWISSPROT	POLYPEPTIDE N-ACETYL GALACTOSAMINYLTRANSFERASE (PROTEIN-UDP
1834	14861		2.09	4.0E-31	AL163280.2	NT	ACETYL GALACTOSAMINYLTRANSFERASE (UDP-GALNAc:POLYPEPTIDE, N-
2800	15792		1.98	4.0E-31	5730038	NT	ACETYL GALACTOSAMINYLTRANSFERASE (GALNAc-T1)
10900	23820	37329	0.43	4.0E-31	AF084464.1	NT	Homo sapiens chromosome 21 segment HS21C080
2603	15603	28625	0.98	3.0E-31	6005871	NT	Homo sapiens SET domain and mariner transposase fusion gene (SETMAR) mRNA
7562	20525	33883	6.73	3.0E-31	4826853	NT	Rattus norvegicus GTP-binding protein REM2 (Rem2) mRNA, complete cds
7736	20691	34055	1.28	3.0E-31	11420326	NT	Homo sapiens SEC83, endoplasmic reticulum translocon component (S. cerevisiae) like (SEC83L), mRNA
8501	21459		2.35	3.0E-31	AL163280.2	NT	Homo sapiens NADH dehydrogenase (ubiquinone) 1 beta subcomplex 8 (19kD, ASH1) (NDUFB8) mRNA
9939	22866	36328	4.66	3.0E-31	D14523.1	NT	Homo sapiens hypochlorite protein FLJ10842 (FLJ10842), mRNA
10961	23881	37394	0.52	3.0E-31	AA421242.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C006 Horse mRNA for ferritin L-chain, complete cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10895	23861	37486	3.17	3.0E-31	P11174	SWISSPROT	40S RIBOSOMAL PROTEIN S15 (RIG PROTEIN)
11487	24430		6.84	3.0E-31	BF035327.1	EST_HUMAN	601458531F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3882086 5'
1932	14956	27953	1.33	2.0E-31	AW838171.1	EST_HUMAN	QV2-L T0051-260300-111-103 L T0051 Homo sapiens cDNA
2224	15238	28262	0.98	2.0E-31	A1393388.1	EST_HUMAN	tg44g05.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2111872 3'
2347	15356	28379	2.53	2.0E-31	AL119245.1	EST_HUMAN	DKFZp761G1513_r1 761 (synonym: hamy2) Homo sapiens cDNA clone DKFZp761G1513 5'
2447	15452	28473	5.67	2.0E-31	AA458824.1	EST_HUMAN	aa88111.s1 Stratagene fetal retina 937202 Homo sapiens cDNA clone IMAGE:838413 3' similar to contains THR.12 THR repetitive element:
5347	18452	31323	0.72	2.0E-31	AW444496.1	EST_HUMAN	UHH-BIS-akb-f09-0-U1.s1 NCI CGAP_Sub5 Homo sapiens cDNA clone IMAGE:2733833 3'
5798	18890	32072	2.86	2.0E-31	BE350127.1	EST_HUMAN	h09g01.x1 NCI CGAP_Kid13 Homo sapiens cDNA clone IMAGE:3146256 3' similar to contains MER29.b3 MER29 repetitive element:
9431	22395		2.71	2.0E-31	AA877764.1	EST_HUMAN	m06f04.s1 NCI CGAP_Co10 Homo sapiens cDNA clone IMAGE:1161055 3' similar to TR:Q13537 Q13537 MER37 TRANSPOSABLE ELEMENT, COMPLETE CONSENSUS SEQUENCE.:
9562	22524	35973	4.13	2.0E-31	7661535	NT	Homo sapiens B9 protein (B9), mRNA
10266	23191	36677	1.13	2.0E-31	AV710948.1	EST_HUMAN	AV710948 Cu Homo sapiens cDNA clone CUAALB07 5'
10266	23191	36678	1.13	2.0E-31	AV710948.1	EST_HUMAN	AV710948 Cu Homo sapiens cDNA clone CUAALB07 5'
10435	23357	36844	2.57	2.0E-31	BE408611.1	EST_HUMAN	601304125F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3638310 5'
10435	23357	36845	2.57	2.0E-31	BE408611.1	EST_HUMAN	601304125F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3638310 5'
12427	25195		1.91	2.0E-31	AF149512.1	NT	Homo sapiens hexokinase II gene, promoter region
12566	25987		3.94	2.0E-31	AI114527.1	EST_HUMAN	HA1110 Human fetal liver cDNA library Homo sapiens cDNA
17	13137	26036	11.03	1.0E-31	U93163.1	NT	Homo sapiens MAGE-B2 (MAGE-B2), MAGE-B3 (MAGE-B3), MAGE-B4 (MAGE-B4), and MAGE-B1 (MAGE-B1) genes, complete cds
1671	14703	27678	3.34	1.0E-31	O95371	SWISSPROT	OLFACTORY RECEPTOR 2C1
1671	14703	27679	3.34	1.0E-31	O95371	SWISSPROT	OLFACTORY RECEPTOR 2C1
1671	14703	27680	3.34	1.0E-31	O95371	SWISSPROT	OLFACTORY RECEPTOR 2C1
4666	17687	30571	1.35	1.0E-31	AL134376.1	EST_HUMAN	DKFZp547B235_r1 547 (synonym: hfbt1) Homo sapiens cDNA clone DKFZp547B235 5'
4666	17687	30572	1.35	1.0E-31	AL134376.1	EST_HUMAN	DKFZp547B235_r1 547 (synonym: hfbt1) Homo sapiens cDNA clone DKFZp547B235 5'
5365	18470	31341	3.75	1.0E-31	AW391679.1	EST_HUMAN	MR3-S10220-151299-028-e08_1 S10220 Homo sapiens cDNA
6256	19329	32559	2.31	1.0E-31	AF048727.1	NT	Homo sapiens minisatellite ceb1 repeat region
7506	20471	33831	1.08	1.0E-31	AF126145.1	NT	Bos taurus xenobiotic/medium-chain fatty acid:CoA ligase form XL-III mRNA, nuclear mRNA encoding mitochondrial protein, complete cds
8132	21069	34468	0.76	1.0E-31	BE972818.1	EST_HUMAN	601852052F1 NIH_MGC_82 Homo sapiens cDNA clone IMAGE:3935293 5'
10596	23518	37009	0.68	1.0E-31	U93163.1	NT	Homo sapiens MAGE-B2 (MAGE-B2), MAGE-B3 (MAGE-B3), MAGE-B4 (MAGE-B4), and MAGE-B1 (MAGE-B1) genes, complete cds

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11261	24213	37737	4.66	1.0E-31	AI086434.1	EST_HUMAN	q21h03.x1 NCL_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:1760709 3' similar to TR:Q16595 Q16595 FRATAXIN.
12103	24974	38571	1.5	1.0E-31	U66061.1	NT	Human germ-line T-cell receptor beta chain TCRBV17S1A1T, TCRBV2S1, TCRBV10S1P, TCRBV28S1P, TCRBV19S1P, TCRBV15S1, TCRBV11S1A1T, HVB relic, TCRBV28S1P, TCRBV34S1, TCRBV14S1, TCRBV3S1, TCRBV4S1A1T, TRY4, TRY5, TRY6, TRY7, TRY8, TCRBD1, TCRBJ1S1, TCRBJ1S2, >
6795	19849	33134	2.13	9.0E-32	AV723976.1	EST_HUMAN	AV723976 HTB Homo sapiens cDNA clone HTBAAG01 5'
7598	20559	33919	0.53	9.0E-32	L31770.1	NT	Bos taurus vacuolar H+-ATPase subunit mRNA, complete cds
7848	20795		0.85	9.0E-32	11430822	NT	Homo sapiens hypothetical protein FLJ11294 (FLJ11294), mRNA
2090	15107	28126	3.05	8.0E-32	AI056770.1	EST_HUMAN	ox15a09.x1 Soares_fetal_liver_spleen_INFLS_S1 Homo sapiens cDNA clone IMAGE:1675384 3'
5559	18656	31601	0.89	8.0E-32	AW997214.1	EST_HUMAN	RC2-BN0048-200300-015-e04 BN0048 Homo sapiens cDNA
4888	17913	30803	1.16	7.0E-32	P52591	SWISSPROT	NUCLEAR ENVELOPE PORE MEMBRANE PROTEIN POM 121 (PORE MEMBRANE PROTEIN OF 121 KD) (P145)
12405	25178		7.66	7.0E-32	X17283.1	NT	Human chromosome 22 immunoglobulin V(K) gene, part. with 5' breakpoint between orphion and neighbouring non-amplified region
2742	15736	28752	1.2	6.0E-32	AI478104.1	EST_HUMAN	Im34a10.x1 NCL_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2159984 3' similar to contains MER28.13 MER28 repetitive element.
7591	20552		1.29	6.0E-32	BE888016.1	EST_HUMAN	601511530F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3913087 5'
1035	14081	27032	17.73	5.0E-32	AF116627.1	NT	Homo sapiens PRO1181 mRNA, complete cds
931	13984		1.85	4.0E-32	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
7861	20805	34181	3.03	4.0E-32	11432574	NT	Homo sapiens AT-binding transcription factor 1 (ATBF1), mRNA
7861	20805	34182	3.03	4.0E-32	11432574	NT	Homo sapiens AT-binding transcription factor 1 (ATBF1), mRNA
8702	21670		1	4.0E-32	BE064410.1	EST_HUMAN	RC4-BT0311-141199-011-106 BT0311 Homo sapiens cDNA
456	13529	28459	3.32	3.0E-32	Y17293.1	NT	Homo sapiens FLI-1 gene, partial
1448	14481	27458	9.76	3.0E-32	AV731500.1	EST_HUMAN	AV731500 HTF Homo sapiens cDNA clone HTFAK007 5'
9749	22690	36147	19.67	3.0E-32	AV758634.1	EST_HUMAN	AV758634 BM Homo sapiens cDNA clone BMFBFBH12 5'
9749	22690	36148	19.67	3.0E-32	AV758634.1	EST_HUMAN	AV758634 BM Homo sapiens cDNA clone BMFBFBH12 5'
11270	24222	37747	2.81	3.0E-32	AA777621.1	EST_HUMAN	z195a07.s1 Soares_fetal_liver_spleen_INFLS_S1 Homo sapiens cDNA clone IMAGE:448500 3' similar to contains THR.13 THR repetitive element.
11550	24491		1.46	3.0E-32	BF035327.1	EST_HUMAN	601456531F1 NIH_MGC_86 Homo sapiens cDNA clone IMAGE:382086 5'
12430	25167		5.4	3.0E-32	BE279086.1	EST_HUMAN	601156285F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3139701 5'
12786	18336	31283	3.46	3.0E-32	5174574	NT	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (trithorax (Drosophila) homolog); translocated to, 4 (MLLT4) mRNA

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Table 4
Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E- Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12786	18336	31284	3.46	3.0E-32	5174574	NT	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (t(11q24) homology); translocated to, 4 (MLL T4) mRNA
12937	25517		4.33	3.0E-32	BE279086.1	EST_HUMAN	601156285F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3139701 5'
4918	17935	30827	0.97	2.0E-32	BE295613.1	EST_HUMAN	601173631F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3529159 5'
6381	19449	32690	0.87	2.0E-32	M55418.1	NT	Human cell 12-lipoxygenase mRNA, complete cds
6624	19682	32959	6.86	2.0E-32	Z38133.1	NT	H. sapiens mRNA for myosin
6624	19682	32960	6.86	2.0E-32	Z38133.1	NT	H. sapiens mRNA for myosin
8621	21589	35006	2.19	2.0E-32	AA114294.1	EST_HUMAN	z166c08.r1 Strategene HeLa cell s3 937216 Homo sapiens cDNA clone IMAGE:563150 5'
8621	21589	35007	2.19	2.0E-32	AA114294.1	EST_HUMAN	z166c08.r1 Strategene HeLa cell s3 937216 Homo sapiens cDNA clone IMAGE:563150 5'
13049	25589	31683	4.17	2.0E-32	AV736449.1	EST_HUMAN	AV736449 CB Homo sapiens cDNA clone CBFBIA08 5'
13049	25589	31684	4.17	2.0E-32	AV736449.1	EST_HUMAN	AV736449 CB Homo sapiens cDNA clone CBFBIA08 5'
3110	16167		1.07	1.0E-32	BE743299.1	EST_HUMAN	601573207F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3834433 5'
7256	19991	33289	6.73	1.0E-32	11439799	NT	Homo sapiens chromosome 11 open reading frame 9 (C11ORF9), mRNA
8943	21909	35334	6.78	1.0E-32	AA720574.1	EST_HUMAN	mw21g02.s1 NCI_CGAP_G050 Homo sapiens cDNA clone IMAGE:1241138 3' similar to contains THR.13 THR repetitive element
3493	16540		5.7	9.0E-33	BE327112.1	EST_HUMAN	hw07c05.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3182216 3' similar to TR:O88539 O88539 WW DOMAIN BINDING PROTEIN 11.
6560	19620		3.43	9.0E-33	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
9140	22106	35532	1.82	9.0E-33	BF347229.1	EST_HUMAN	602021164F1 NCI_CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4156670 5'
11150	24110		4.08	9.0E-33	AL163280.2	NT	Homo sapiens chromosome 21 segment HS21C080
63	13182	26098	2.4	7.0E-33	5031736	NT	Homo sapiens short-chain alcohol dehydrogenase family member (HEP27) mRNA
63	13182	26099	2.4	7.0E-33	5031736	NT	Homo sapiens short-chain alcohol dehydrogenase family member (HEP27) mRNA
2169	15185	28206	2.43	7.0E-33	AI590115.1	EST_HUMAN	tot12609.x1 NCI_CGAP_U12 Homo sapiens cDNA clone IMAGE:2178809 3' similar to contains OFR.11 OFR repetitive element
2657	15654		7.82	7.0E-33	AV730056.1	EST_HUMAN	AV730056 HTF Homo sapiens cDNA clone HTFAVE06 5'
2841	14737	27719	1.62	7.0E-33	AV730015.1	EST_HUMAN	AV730015 HTF Homo sapiens cDNA clone HTFANF08 5'
3256	16310		16.32	7.0E-33	AW971307.1	EST_HUMAN	EST383396 MAGL Homo sapiens cDNA
9298	22264		1.07	7.0E-33	X54890.1	NT	Human hLRP mRNA for leukocyte common antigen-related peptide (protein-tyrosine phosphate) (EC 3.1.3.48)
11178	24134	37664	2.89	7.0E-33	BF347229.1	EST_HUMAN	602021164F1 NCI_CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4156670 5'
11578	24516	38071	2.65	7.0E-33	AW971588.1	EST_HUMAN	EST383657 MAGL Homo sapiens cDNA
12409	25182	31819	3.85	7.0E-33	AA601416.1	EST_HUMAN	no16h01.s1 NCI_CGAP_Phe1 Homo sapiens cDNA clone IMAGE:1100881 3' similar to contains L1.t1 L1 repetitive element

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3749	18781		0.69	6.0E-33	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
6185	19260	32494	1.09	6.0E-33	F30631.1	EST_HUMAN	HSPD21201 HM3 Homo sapiens cDNA clone s4000107H06
6185	19260	32495	1.09	6.0E-33	F30631.1	EST_HUMAN	HSPD21201 HM3 Homo sapiens cDNA clone s4000107H06
8925	21891	35319	7.52	6.0E-33	J04038.1	NT	Human glyceraldehyde-3-phosphate dehydrogenase (GAPDH) gene, complete cds
9050	22016	35440	3.18	6.0E-33	11429198	NT	Homo sapiens similar to RAD23 (S. cerevisiae) homolog B (H. sapiens) (LOC63277), mRNA
10371	23294	36769	1.73	6.0E-33	6755609	NT	Mus musculus SRY-box containing gene 6 (Sox6), mRNA
10371	23294	36770	1.73	6.0E-33	6755609	NT	Mus musculus SRY-box containing gene 6 (Sox6), mRNA
1792	14821		1.83	5.0E-33	BF973515.1	EST_HUMAN	QV1-FT0169-100700-271-a02 F10169 Homo sapiens cDNA
1898	14923		1.27	5.0E-33	11141884	NT	Homo sapiens solute carrier family 5 (choline transporter), member 7 (SLC5A7), mRNA
1914	14938	27933	1.31	5.0E-33	4507208	NT	Homo sapiens spermidine synthase (SRM), mRNA
1914	14938	27934	1.31	5.0E-33	4507208	NT	Homo sapiens spermidine synthase (SRM), mRNA
2280	15293		1.49	5.0E-33	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
4087	17121	30015	1.28	5.0E-33	AB014599.1	NT	Homo sapiens mRNA for KIAA0699 protein, partial cds
6823	19877	33166	51.92	5.0E-33	AA189080.1	EST_HUMAN	z45b06.s1 Stratagene NHT neuron (8637233) Homo sapiens cDNA clone IMAGE:832627 3' similar to contains Alu repetitive element;
10610	23532	37027	0.85	5.0E-33	AW264679.1	EST_HUMAN	xq33f11.x1 NCI_CGAP_Lu28 Homo sapiens cDNA clone IMAGE:2752461 3'
10610	23532	37028	0.85	5.0E-33	AW264679.1	EST_HUMAN	xq33f11.x1 NCI_CGAP_Lu28 Homo sapiens cDNA clone IMAGE:2752461 3'
1130	14173		0.87	4.0E-33	AL163207.2	NT	Homo sapiens chromosome 21 segment HS21C007
2135	15152	28167	1.53	4.0E-33	4759987	NT	Homo sapiens RAB1, member: RAS oncogene family (RAB1), mRNA
2428	15435		2.92	4.0E-33	AA626821.1	EST_HUMAN	ab51b11.r1 Stratagene lung carcinoma 937218 Homo sapiens cDNA clone IMAGE:844317 5' similar to contains Alu repetitive element; contains MER28 b2 MER28 repetitive element;
2552	15554	28574	2.35	4.0E-33	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
4509	17534	30418	1.65	4.0E-33	AW293349.1	EST_HUMAN	UI-H-B12-ah1-c-03-O-J1.c1 NCI_CGAP_Sub4 Homo sapiens cDNA clone IMAGE:2727149 3'
5477	18578	31487	21.95	4.0E-33	AA053053.1	EST_HUMAN	z171a08.r1 Stratagene colon (8937204) Homo sapiens cDNA clone IMAGE:510038 5' similar to gb:X12871_mat1 HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN A1 (HUMAN);
6532	19595	32857	2.14	4.0E-33	8393994	NT	Homo sapiens polymerase (DNA directed), alpha (POLA), mRNA
6532	19595	32858	2.14	4.0E-33	8393994	NT	Homo sapiens polymerase (DNA directed), alpha (POLA), mRNA
1091	14135		6.18	3.0E-33	BE350127.1	EST_HUMAN	ht09g01.x1 NCI_CGAP_Kid13 Homo sapiens cDNA clone IMAGE:3146256 3' similar to contains MER28.b3 MER29 repetitive element;
1092	14135		4.81	3.0E-33	BE350127.1	EST_HUMAN	ht09g01.x1 NCI_CGAP_Kid13 Homo sapiens cDNA clone IMAGE:3146256 3' similar to contains MER28.b3 MER29 repetitive element;
2456	15894		0.91	3.0E-33	AV647851.1	EST_HUMAN	AV647851 GLC Homo sapiens cDNA clone GLC8CF09 3'
10806	23727	37228	1.02	3.0E-33	AA861510.1	EST_HUMAN	ak32b12.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1407647 3' similar to TR.Q13579 Q13579 MARINER TRANSPOSASE.;

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
18	13138		0.63	2.0E-33	AI160189.1	EST_HUMAN	qb67g03.x1 Soares_fetal_heart_NbHH19W Homo sapiens cDNA clone IMAGE:1705204 3' similar to contains OFR.11 OFR repetitive element;
105	13138		2.93	2.0E-33	AI160189.1	EST_HUMAN	qb67g03.x1 Soares_fetal_heart_NbHH19W Homo sapiens cDNA clone IMAGE:1705204 3' similar to contains OFR.11 OFR repetitive element;
4449	17475		4.22	2.0E-33	BE159039.1	EST_HUMAN	MR0-HT0405-160300-202-008 HT0405 Homo sapiens cDNA
5021	18035	30920	9.82	2.0E-33	AA626883.1	EST_HUMAN	ab51g11.11 Stratagene lung carcinoma 937218 Homo sapiens cDNA clone IMAGE:844388 5' similar to gb:X00734_cds1 TUBULIN BETA-5 CHAIN (HUMAN);
5129	18138	31015	2.58	2.0E-33	11421332	NT	Homo sapiens hypothetical protein SIRP-b2 (SIRP-b2), mRNA
5129	18138	31016	2.58	2.0E-33	11421332	NT	Homo sapiens hypothetical protein SIRP-b2 (SIRP-b2), mRNA
6563	19623	32888	1	2.0E-33	AI277492.1	EST_HUMAN	qb6d01.x1 Soares_NbHMPu_S1 Homo sapiens cDNA clone IMAGE:1880161 3'
9456	22420		2.29	2.0E-33	AI052256.1	EST_HUMAN	ac21d03.x1 Soares_fetal_liver_spleen_INFLS_S1 Homo sapiens cDNA clone IMAGE:1675973 3' similar to gb:M29536 TRANSLOCATION INITIATION FACTOR 2 BETA SUBUNIT (HUMAN);
10979	23899	37411	0.9	2.0E-33	11421332	NT	Homo sapiens hypothetical protein SIRP-b2 (SIRP-b2), mRNA
10979	23899	37412	0.9	2.0E-33	11421332	NT	Homo sapiens hypothetical protein SIRP-b2 (SIRP-b2), mRNA
9	13129		2.05	1.0E-33	AF003528.1	NT	Homo sapiens X-linked anhidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
5669	18764	31934	0.7	1.0E-33	AF199420.1	NT	Homo sapiens F-box protein FBL4 (FBL4) mRNA, complete cds
7637	20597	33961	1.18	1.0E-33	M13975.1	NT	Homo sapiens protein kinase C beta-II type (PRKCB1) mRNA, complete cds
10381	26010		0.73	1.0E-33	U60822.1	NT	Human dystrophin (DMD) gene, exons 7, 8 and 9, and partial cds
11377	24324	37853	1.72	1.0E-33	AV744220.1	EST_HUMAN	AV744220 CB Homo sapiens cDNA clone C8OAAA11 5'
11650	24587	38157	1.79	1.0E-33	AW96818.1	EST_HUMAN	QV3-BN0047-230200-102-503 BN0047 Homo sapiens cDNA
11973	24851	38448	2.59	1.0E-33	U60922.1	NT	Human dystrophin (DMD) gene, exons 7, 8 and 9, and partial cds
12885	25352		1.98	1.0E-33	AI927191.1	EST_HUMAN	wo8c06.x1 NCL_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2462410 3'
12862	13129		3.4	1.0E-33	AF003528.1	NT	Homo sapiens X-linked anhidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
4644	17685		1.17	9.0E-34	BE155575.1	EST_HUMAN	PM4-HT0352-181199-001-D02 HT0352 Homo sapiens cDNA
13069	25603		3.44	9.0E-34	AJ271735.1	NT	Homo sapiens Xq pseudautosomal region; segment 1/2
2181	15196	28216	0.93	8.0E-34	8922751	NT	Homo sapiens hypothetical protein FLJ10900 (FLJ10900), mRNA
8077	21014	34414	0.49	8.0E-34	BE069882.1	EST_HUMAN	MR4-BT0399-200100-001-H03 BT0399 Homo sapiens cDNA
1439	14472	27449	2.93	7.0E-34	T70845.1	EST_HUMAN	y415a05.t1 Soares_fetal_liver_spleen_INFLS Homo sapiens cDNA clone IMAGE:108320 5'
10359	14472	27449	0.6	7.0E-34	T70845.1	EST_HUMAN	y415a05.t1 Soares_fetal_liver_spleen_INFLS Homo sapiens cDNA clone IMAGE:108320 5'
12479	25227		1.69	7.0E-34	H12866.1	EST_HUMAN	y14c10.t1 Soares_placenta_Nb2HP Homo sapiens cDNA clone IMAGE:148722 5'
471	13543	26471	2.11	6.0E-34	U10991.1	NT	Human G2 protein mRNA, partial cds
471	13543	26472	2.11	6.0E-34	U10991.1	NT	Human G2 protein mRNA, partial cds

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Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12287	25103	31836	1.86	6.0E-34	U03686.1	NT	Mus musculus DAB/2J hair-specific (hac1-1) gene
1897	14922		2.36	5.0E-34	7706500	NT	Homo sapiens Npw38-binding protein NpwBP (LOC51728), mRNA
5101	18111	30983	4.68	5.0E-34	U30883.1	NT	Human splicing factor SRP55-1 (SRP-55) mRNA, complete cds
9218	22184	35617	1.17	5.0E-34	AF078779.1	NT	Rattus norvegicus putative four repeat ion channel mRNA, complete cds
11015	23980	37506	2.03	5.0E-34	AB037856.1	NT	Homo sapiens mRNA for KIAA1435 protein, partial cds
11583	24521		1.49	5.0E-34	AL163208.2	NT	Homo sapiens chromosome 21 segment HS21C009
2014	15035	28046	1.71	4.0E-34	AB04667.1	EST_HUMAN	t894c06.x1 NCL_CGAP_P128 Homo sapiens cDNA clone IMAGE:2249194 3'
5223	18231	31106	0.64	4.0E-34	AW886252.1	EST_HUMAN	RCS-OT0078-280300-022-D02 OT0078 Homo sapiens cDNA
9393	22358	35788	1.07	4.0E-34	BF209778.1	EST_HUMAN	601874960F1 NIH_MGC_54 Homo sapiens cDNA clone IMAGE:4102213 5'
6359	19428	32871	0.74	3.0E-34	M37277.1	NT	Human Ig germline H-chain D-region genes, partial cds
11486	24429		3.18	3.0E-34	BF035327.1	EST_HUMAN	601458531F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3862086 5'
9303	22268	35698	1.93	2.0E-34	AI678101.1	EST_HUMAN	wd35g06.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2330170 3' similar to contains MER29.12 MER29 repetitive element
9303	22268	35699	1.93	2.0E-34	AI678101.1	EST_HUMAN	wd35g06.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2330170 3' similar to contains MER29.12 MER29 repetitive element
11496	24439	37987	1.57	2.0E-34	P51805	SWISSPROT	PLEXIN 4 PRECURSOR (TRANSMEMBRANE PROTEIN SEX)
11496	24439	37988	1.57	2.0E-34	P51805	SWISSPROT	PLEXIN 4 PRECURSOR (TRANSMEMBRANE PROTEIN SEX)
1505	14538	27510	8.53	1.0E-34	P12236	SWISSPROT	ADP ATP CARRIER PROTEIN, LIVER ISOFORM T2 (ADP/ATP TRANSLOCASE 3) (ADENINE NUCLEOTIDE TRANSLOCATOR 3) (ANT 3)
3687	16730	29641	1.35	1.0E-34	AF003528.1	NT	Homo sapiens X-linked anhidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
4098	17132	30025	0.81	1.0E-34	AY009397.1	NT	Homo sapiens WNT3 precursor (WNT3) mRNA, complete cds
4098	17132	30026	0.81	1.0E-34	AY009397.1	NT	Homo sapiens WNT3 precursor (WNT3) mRNA, complete cds
4506	17531		6.11	1.0E-34	BE071414.1	EST_HUMAN	RC2-BT0508-240400-016-h08 BT0508 Homo sapiens cDNA
6281	19334	32565	1.98	1.0E-34	BE874052.1	EST_HUMAN	601484430F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3886999 5'
6261	19334	32566	1.98	1.0E-34	BE874052.1	EST_HUMAN	601484430F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3886999 5'
9691	22634	36090	0.46	1.0E-34	P23266	SWISSPROT	OLFACTORY RECEPTOR-LIKE PROTEIN F5
10055	22982	36450	14.47	1.0E-34	AL036635.1	EST_HUMAN	DKFZp564A1563_r1 564 (synonym: hfrb2) Homo sapiens cDNA clone DKFZp564A1563 5'
11516	24457	38007	1.71	1.0E-34	BE781790.1	EST_HUMAN	601470592F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3873478 5'
11516	24457	38008	1.71	1.0E-34	BE781790.1	EST_HUMAN	601470592F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3873478 5'
11530	24471	38022	3.22	1.0E-34	11439599	NT	Homo sapiens nucleobindin 2 (NUCB2), mRNA
12664	25921		1.4	1.0E-34	AA807097.1	EST_HUMAN	cc31c11.s1 NCL_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1351316 3' similar to gb.X68203
12874	25507		4.01	1.0E-34	AL163210.2	NT	TYROSINE-PROTEIN KINASE RECEPTOR FLT4 PRECURSOR (HUMAN); Homo sapiens chromosome 21 segment HS21C010

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Table 4
Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3659	16702	28617	1.25	9.0E-35	AW663302.1	EST_HUMAN	hh77b06.y1 NCI_CGAP_GU1 Homo sapiens cDNA clone IMAGE:2068787 5'
227	13326		13.21	8.0E-35	6031190	NT	Homo sapiens prohibitin (PHB) mRNA
1751	14780	27765	4.47	8.0E-35	BF589937.1	EST_HUMAN	na633a08.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3258134 3' similar to TR:O75912
1751	14780	27766	4.47	8.0E-35	BF589937.1	EST_HUMAN	na633a08.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3258134 3' similar to TR:O75912
4902	17919	30811	2.91	8.0E-35	BF183195.1	EST_HUMAN	na633a08.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3258134 3' similar to TR:O75912
11049	24012	37537	1.84	8.0E-35	BE378480.1	EST_HUMAN	na633a08.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3258134 3' similar to TR:O75912
12402	25175		5.41	8.0E-35	BF569282.1	EST_HUMAN	na633a08.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3258134 3' similar to TR:O75912
6631	19689	32968	1.85	7.0E-35	11425417	NT	Homo sapiens phosphatidylinositol glycan, class L (PIGL), mRNA
1411	14444	27416	0.93	6.0E-35	AA757115.1	EST_HUMAN	na633a08.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3258134 3' similar to TR:O75912
1985	15006	28009	2.85	6.0E-35	6005975	NT	Homo sapiens zinc finger protein 208 (ZNF208), mRNA
4983	17117	30012	0.76	6.0E-35	AW297191.1	EST_HUMAN	UIH-BW0-ajd-09-0-U1.s1 NCI_CGAP_Sub6 Homo sapiens cDNA clone IMAGE:2731433 3'
8229	21198	34605	3.66	6.0E-35	6005921	NT	Homo sapiens triple functional domain (TIPRF interacting) (TRIO), mRNA
9058	22024	35447	0.51	6.0E-35	X94232.1	NT	H sapiens mRNA for novel T-cell activation protein
9058	22024	35448	0.51	6.0E-35	X94232.1	NT	H sapiens mRNA for novel T-cell activation protein
10025	22952	36420	0.68	6.0E-35	AB002364.1	NT	Human mRNA for KIAA0366 gene, partial cds
10263	23188	36672	3.04	6.0E-35	AB037786.1	NT	Homo sapiens mRNA for KIAA1365 protein, partial cds
1722	14752	27737	61.6	5.0E-35	X63392.1	NT	H sapiens immunoglobulin kappa light chain variable region L14
2795	15787	28805	0.9	5.0E-35	AB007866.2	NT	Homo sapiens mRNA for KIAA0406 protein, partial cds
3021	16079	28000	1.47	5.0E-35	6912639	NT	Homo sapiens Ring1 and YY1 binding protein (RYBP), mRNA
4438	17464	30354	2.05	5.0E-35	AF023268.1	NT	Homo sapiens clk2 kinase (CLK2), propin1, cote1, glucocerebrosidase (GBA), and metaxin genes, complete cds; metaxin pseudogene and glucocerebrosidase pseudogene; and thrombospondin3 (THBS3) gene, partial cds
4742	17762	30656	0.99	5.0E-35	BE246065.1	EST_HUMAN	TCBAP1D3842 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens cDNA clone TCBAP3842
8526	21493		4.74	5.0E-35	BE800992.1	EST_HUMAN	601431984F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3917229 5'
8552	21520	34939	2.2	5.0E-35	AI208765.1	EST_HUMAN	qg38c05.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1837448 3' similar to SW:Y249_HUMAN_Q92539 HYPOTHETICAL PROTEIN KIAA0249. ;
8552	21520	34940	2.2	5.0E-35	AI208765.1	EST_HUMAN	qg38c05.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1837448 3' similar to SW:Y249_HUMAN_Q92539 HYPOTHETICAL PROTEIN KIAA0249. ;
11512	24453		2.39	5.0E-35	AA001786.1	EST_HUMAN	2b84f12.1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:428015 5'
1429	14463	27440	19.86	4.0E-35	BE257907.1	EST_HUMAN	601109719F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3350405 5'

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1835	14862	27859	7.51	4.0E-35	H91193.1	EST_HUMAN	YU98a07.r1 Soares fetal liver spleen 1N1LS Homo sapiens cDNA clone IMAGE:241236 5' similar to contains PTR5 repetitive element ;
4844	17861		0.63	4.0E-35	AF003528.1	NT	Homo sapiens X-linked anhidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
5145	18154		0.83	4.0E-35	BE409102.1	EST_HUMAN	601300705F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3635401 5'
7418	20383		1.81	4.0E-35	BE350127.1	EST_HUMAN	H09g01.x1 NCI CGAP_Kid13 Homo sapiens cDNA clone IMAGE:3146266 3' similar to contains MER28.b3
8863	21830	35253	8.37	4.0E-35	AL046596.1	EST_HUMAN	MER29 repetitive element ;
1582	14615	27588	21.76	3.0E-35	BE268182.1	EST_HUMAN	DKFZp434L148.r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434L148 5'
2338	15349		3.36	3.0E-35	AF224492.1	NT	601125260F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3345083 5'
5413	18516	31393	27.9	3.0E-35	BF433100.1	EST_HUMAN	Homo sapiens phospholipid scramblase 1 gene, complete cds
5413	18516	31394	27.9	3.0E-35	BF433100.1	EST_HUMAN	7n26a09.x1 NCI CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3665361 3' similar to TR:Q9QZH7
9844	22780		1.71	3.0E-35	AF223391.1	NT	Q9QZH7 F-BOX PROTEIN FBL2. ;
10535	23457	36954	0.93	3.0E-35	AW003063.1	EST_HUMAN	7n26a09.x1 NCI CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3665361 3' similar to TR:Q9QZH7
108	15832	26146	0.83	2.0E-35	N88995.1	EST_HUMAN	Homo sapiens cadherin alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
1192	14232	27188	1.39	2.0E-35	T11909.1	EST_HUMAN	wr03a05.x1 NCI CGAP_GC6 Homo sapiens cDNA clone IMAGE:2480432 3' similar to SW:POL1_HUMAN
2227	15241	28266	5.04	2.0E-35	AB019413.1	NT	P10266 RETROVIRUS-RELATED POL POLYPROTEIN [CONTAINS: REVERSE TRANSCRIPTASE ;
2693	15889	28706	1	2.0E-35	AW66005.1	EST_HUMAN	K6932F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA clone K6932 5' similar to REPETITIVE ELEMENT
3323	16374	28294	0.93	2.0E-35	6912459	NT	A971F Heart Homo sapiens cDNA clone A971
3323	16374	28296	0.93	2.0E-35	6912459	NT	Homo sapiens mRNA for Gab2, complete cds
3570	16815		1.08	2.0E-35	AB020702.1	NT	H86a12.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2878168 3' similar to SW:TR12_HUMAN Q14669 THYROID RECEPTOR INTERACTING PROTEIN 12 ;
3930	16970	29883	1.42	2.0E-35	BE247575.1	EST_HUMAN	Homo sapiens Grb2-associated binder 2 (KIAA0571), mRNA
3930	16970	29884	1.42	2.0E-35	BE247575.1	EST_HUMAN	Homo sapiens mRNA for KIAA0895 protein, partial cds
4697	17718		2.65	2.0E-35	H49239.1	EST_HUMAN	TCBAP2E4328 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens cDNA clone TCBAP4328
5682	18758	31926	1.8	2.0E-35	BF332417.1	EST_HUMAN	TCBAP2E4328 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens cDNA clone TCBAP4328
							YU98a12.r1 Soares fetal liver spleen 1N1LS Homo sapiens cDNA clone IMAGE:274079 5'
							QY0-BT0701-210400-199-b04 BT0701 Homo sapiens cDNA

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Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7311	20282	33622	0.65	2.0E-35	BE832636.1	EST_HUMAN	GM2-MT0125-280700-297-G02 MT0125 Homo sapiens cDNA
7311	20282	33623	0.65	2.0E-35	BE832636.1	EST_HUMAN	GM2-MT0125-280700-297-G02 MT0125 Homo sapiens cDNA
11148	24108	37634	11.23	2.0E-35	X59417.1	NT	H.sapiens PROS-27 mRNA
12168	16374	26294	2.39	2.0E-35	6912459	NT	Homo sapiens Grb2-associated binder 2 (KIAA0571), mRNA
12168	16374	29295	2.39	2.0E-35	6912459	NT	Homo sapiens Grb2-associated binder 2 (KIAA0571), mRNA
12340	25138	31851	1.47	2.0E-35	BE904978.1	EST_HUMAN	801496774F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3898699 5'
12340	25138	31852	1.47	2.0E-35	BE904978.1	EST_HUMAN	801496774F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3898699 5'
12854	25462		7.86	2.0E-35	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
12973	15932	26146	1.72	2.0E-35	N88965.1	EST_HUMAN	K6932F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA clone K6932 5' similar to REPTITIVE ELEMENT
48	13188	26073	5.26	1.0E-35	AA631949.1	EST_HUMAN	hmf16 Regional genomic DNA specific cDNA library Homo sapiens cDNA clone CR12-1
48	13188	26074	5.26	1.0E-35	AA631949.1	EST_HUMAN	hmf16 Regional genomic DNA specific cDNA library Homo sapiens cDNA clone CR12-1
753	13814	26756	95.25	1.0E-35	AW389473.1	EST_HUMAN	IL2-ST0162-131099-006-d12 ST0162 Homo sapiens cDNA
753	13814	26757	95.25	1.0E-35	AW389473.1	EST_HUMAN	IL2-ST0162-131099-006-d12 ST0162 Homo sapiens cDNA
910	13965		0.99	1.0E-35	T87947.1	EST_HUMAN	y93a01.r1 Soares fetal liver spleen 1NLS Homo sapiens cDNA clone IMAGE:115762 5' similar to SP:A44282 A44282 RETROVIRUS-RELATED POLYPROTEIN - HUMAN ;
2549	15550	28571	3.02	1.0E-35	7705994	NT	Homo sapiens hypothetical protein (LOC51233), mRNA
2778	15770	28790	1.85	1.0E-35	BE350127.1	EST_HUMAN	h09g01.x1 NCI_CGAP_Kid13 Homo sapiens cDNA clone IMAGE:3148256 3' similar to contains MER29.b3 MER29 repetitive element ;
2778	15770	28791	1.85	1.0E-35	BE350127.1	EST_HUMAN	h09g01.x1 NCI_CGAP_Kid13 Homo sapiens cDNA clone IMAGE:3148256 3' similar to contains MER29.b3 MER29 repetitive element ;
3177	16232	29148	3.44	1.0E-35	AV650422.1	EST_HUMAN	AV650422 GLC Homo sapiens cDNA clone GLCCEP06 3'
3177	16232	29149	3.44	1.0E-35	AV650422.1	EST_HUMAN	AV650422 GLC Homo sapiens cDNA clone GLCCEP06 3'
4452	17478	30365	4.04	1.0E-35	7656905	NT	Mus musculus activin receptor interacting protein 1 (Arip1-pending), mRNA
4452	17478	30366	4.04	1.0E-35	7656905	NT	Mus musculus activin receptor interacting protein 1 (Arip1-pending), mRNA
5683	18684	31653	1.54	1.0E-35	11526236	NT	Homo sapiens chromatin assembly factor 1, subunit B (p60) (CHAF1B), mRNA
7189	18420	31221	0.59	1.0E-35	AW808665.1	EST_HUMAN	MR1-ST0111-111199-011-d07 ST0111 Homo sapiens cDNA
7189	18420	31222	0.59	1.0E-35	AW808665.1	EST_HUMAN	MR1-ST0111-111199-011-d07 ST0111 Homo sapiens cDNA
7725	20681	34045	0.83	1.0E-35	AB033105.1	NT	Homo sapiens mRNA for KIAA1279 protein, partial cds
7903	20846	34231	0.94	1.0E-35	11418002	NT	Homo sapiens KIAA0645 gene product (KIAA0645), mRNA
9900	25899	36312	3.17	1.0E-35	AU158595.1	EST_HUMAN	AU158595 PLACE3 Homo sapiens cDNA clone PLACE3000382 3'
9900	25899	36313	3.17	1.0E-35	AU158595.1	EST_HUMAN	AU158595 PLACE3 Homo sapiens cDNA clone PLACE3000382 3'
10942	23862	37377	0.63	1.0E-35	BF589594.1	EST_HUMAN	naa06a06.x1 NCI_CGAP_P128 Homo sapiens cDNA clone IMAGE:3254051 3' similar to TR:O31341 O31341 BETA-GALACTOSIDASE ;

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Table 4
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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10942	23882	37378	0.63	1.0E-35	BF589594.1	EST_HUMAN	h006006.x1 NCI_CGAP_P228 Homo sapiens cDNA clone IMAGE:3254051 3' similar to TR:O31341
12052	24925	38522	1.72	1.0E-35	AB028980.1	NT	O31341 BETA-GALACTOSIDASE
12052	24925	38523	1.72	1.0E-35	AB028980.1	NT	Homo sapiens mRNA for KIAA1057 protein, partial cds
12057	24930		1.59	1.0E-35	AI525119.1	EST_HUMAN	Homo sapiens mRNA for KIAA1057 protein, partial cds
12188	25887		1.71	1.0E-35	11418274	NT	promina-7 D01.7 bvtumor Homo sapiens cDNA 5'
12320	15550	28571	1.42	1.0E-35	7705994	NT	Homo sapiens fibulin 1 (FBLN1), mRNA
12404	25177		1.77	1.0E-35	11418110	NT	Homo sapiens hypothetical protein (LOC51233), mRNA
12747	25398		1.97	1.0E-35	BE792832.1	EST_HUMAN	Homo sapiens casein kinase 1, epsilon (CSNK1E), mRNA
4011	17080	29856	2.35	9.0E-36	AW821707.1	EST_HUMAN	601584833F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3938985 5'
6123	19201	32425	0.75	8.0E-36	X78479.1	NT	RC3-ST0315-180200-013-F12 ST0315 Homo sapiens cDNA
9585	22547	35998	0.61	8.0E-36	AA348480.1	EST_HUMAN	B bovis BBSrc mRNA for schinderin
10516	23438		0.45	8.0E-36	7706259	NT	EST 54938 Hippocampus II Homo sapiens cDNA 5' end similar to endogenous retrovirus 9, 5' LTR
2942	16000	28923	1.68	7.0E-36	AW857579.1	EST_HUMAN	Homo sapiens Cgi-09 protein (LOC51605), mRNA
3135	16192		4.05	7.0E-36	4557498	NT	CM1-C70315-091298-063-d07 CT0315 Homo sapiens cDNA
7916	20859	34247	6.21	7.0E-36	U06672.1	NT	Homo sapiens C-terminal binding protein 2 (CTBP2) mRNA
7916	20859	34248	6.21	7.0E-36	U06672.1	NT	Homo sapiens C-terminal binding protein 2 (CTBP2) mRNA
12558	25278	31778	2.01	7.0E-36	AF032051.1	NT	Human carcinoembryonic antigen gene family member 12 (CGM12) gene, exons L and L/N
2021	15042	28053	4.16	6.0E-36	7706622	NT	Human carcinoembryonic antigen gene family member 12 (CGM12) gene, exons L and L/N
2427	15434		5.3	6.0E-36	AB035346.1	NT	Homo sapiens glutathione transferase A4 gene, exon 1
3653	16696	29611	1.88	6.0E-36	BF515101.1	EST_HUMAN	Homo sapiens nirjurtin 2 (NINJ2), mRNA
5404	18507	31384	5.86	6.0E-36	AI435169.1	EST_HUMAN	Homo sapiens TCL8 gene, exon 12
7316	20287	33629	3.48	6.0E-36	AW780143.1	EST_HUMAN	Homo sapiens TOL8 gene, exon 12
8999	21965	35390	2.51	6.0E-36	AF208161.1	NT	U1-HBW1-ant-c-12-Q1st1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3083542 3'
10585	23507		0.6	6.0E-36	CF6927.1	EST_HUMAN	U1-HBW1-ant-c-12-Q1st1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:2128195 3' similar to gb:U11949 PANCREATIC SECRETORY TRYPSIN INHIBITOR PRECURSOR (HUMAN);
11874	24756	38339	3.51	6.0E-36	AI380499.1	EST_HUMAN	h006102.x1 NCI_CGAP_Co14 Homo sapiens cDNA clone IMAGE:3038627 3' similar to SW:IMA2_HUMAN
12963	25804	31526	1.9	6.0E-36	BE737154.1	EST_HUMAN	P52282 IMPORTIN ALPHA-2 SUBUNIT
138	13243	26173	12.86	5.0E-36	AJ271735.1	NT	Homo sapiens syncytin precursor, mRNA, complete cds
2761	15763	28773	12.8	5.0E-36	BE398436.1	EST_HUMAN	C18927 Clontech human aorta polyA+ mRNA (#6572) Homo sapiens cDNA clone GEN-535C11 5'
3626	16669	29581	1.32	5.0E-36	AL163209.2	NT	tf95c09.x1 NCI_CGAP_Co11 Homo sapiens cDNA clone IMAGE:2107024 3' similar to contains MER8.b2
							Hom sapiens chromosome 21 segment HS21C009

Table 4
Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4827	17844	30743	1.21	5.0E-36	5729729	NT	Homo sapiens API5-like 1 (API5L1), mRNA
4827	17844	30744	1.21	5.0E-36	5729729	NT	Homo sapiens API5-like 1 (API5L1), mRNA
8070	21007	34405	0.77	5.0E-36	11079227	NT	Homo sapiens N-ethylmaleimide-sensitive factor (NSF), mRNA
12156	13243	26173	2.97	5.0E-36	AJ271735.1	NT	Homo sapiens Xq pseudautosomal region, segment 1/2
12455	25214	31832	3.03	5.0E-36	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
1228	14266	27223	1.24	4.0E-36	BE010038.1	EST_HUMAN	PM3-BN0176-100400-001-g04 BN0176 Homo sapiens cDNA RETROVIRUS-RELATED POL. POLYPROTEIN [CONTAINS: REVERSE TRANSCRIPTASE; ENDONUCLEASE]
1436	14469	27447	0.99	4.0E-36	P10266	SWISSPROT	
1652	14684	27658	1.63	4.0E-36	BE382574.1	EST_HUMAN	601298574F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3628388 5'
2231	15245		1.64	4.0E-36	AW247772.1	EST_HUMAN	2820020 SpHime NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2820020 5'
3365	16415	29340	0.65	4.0E-36	BE389299.1	EST_HUMAN	601282286F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604168 5'
3365	16415	29341	0.65	4.0E-36	BE389299.1	EST_HUMAN	601282286F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604168 5'
4786	17804	30696	0.71	4.0E-36	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
5804	18895		0.96	4.0E-36	R64023.1	EST_HUMAN	yi1905.r1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:139713 5'
6173	19248	32481	2.48	4.0E-36	11497041	NT	Homo sapiens a disintegrin and metalloproteinase domain 22 (ADAM22), transcript variant 3, mRNA
7915	20858	34246	1.74	4.0E-36	M33320.1	NT	Human platelet Glycoprotein IIb (GPIIb) gene, exons 2-29
8901	21867	35290	1.2	4.0E-36	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
8901	21867	35291	1.2	4.0E-36	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
11332	24282	37806	1.8	4.0E-36	AA400370.1	EST_HUMAN	zu69c10.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:743250 5'
12471	25220		1.85	4.0E-36	11420516	NT	Homo sapiens nuclear factor of activated T-cells, cytoplasmic 2 (NFATC2), mRNA
12515	25768		8.26	4.0E-36	AV753629.1	EST_HUMAN	AV753629 TP Homo sapiens cDNA clone TP'GABH01 5'
697	13759	26691	3.9	3.0E-36	AF098810.1	NT	Homo sapiens neuraxin II-alpha gene, partial cds
1497	14530	27502	0.97	3.0E-36	AF110239.1	NT	Homo sapiens calcium/calmodulin-stimulated cyclic nucleotide phosphodiesterase (PDE1A) gene, partial cds
1497	14530	27503	0.97	3.0E-36	AF110239.1	NT	Homo sapiens calcium/calmodulin-stimulated cyclic nucleotide phosphodiesterase (PDE1A) gene, partial cds
4530	17554	30442	6.81	3.0E-36	10181139	NT	Mus musculus junctophilin 1 (Jp1-pending), mRNA
3184	16239	29157	2.17	2.0E-36	BE259267.1	EST_HUMAN	601106343F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3342706 5'
4996	18011	30898	8.63	2.0E-36	AW880376.1	EST_HUMAN	QV0-OT0030-240300-174-h04 OT0030 Homo sapiens cDNA
5563	18660	31606	2.52	2.0E-36	AF267747.1	NT	Mus musculus p47-phox gene, complete cds
5948	19034	32227	3.89	2.0E-36	T08756.1	EST_HUMAN	EST08648 Infant Brain, Benito Soares Homo sapiens cDNA clone HIBBJ28 5' end
6728	19784	33063	12.4	2.0E-36	T69629.1	EST_HUMAN	yc44a07.r1 Stratagene liver (#037224) Homo sapiens cDNA clone IMAGE:83508 5'
9743	22684	36138	0.82	2.0E-36	BF512794.1	EST_HUMAN	UI-H-BW 1-armu-e-11-O-U1.s1 NCI CGAP Sub7 Homo sapiens cDNA clone IMAGE:3071132 3'
9607	22728	36184	0.57	2.0E-36	4507848	NT	Homo sapiens ubiquitin specific protease 13 (isopeptidase T-3) (USP13) mRNA

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9907	22728	36185	0.57	2.0E-36	4507848	NT	Homo sapiens ubiquitin specific protease 13 (isopeptidase T-3) (USP13) mRNA
886	13941	26899	2.74	1.0E-36	BE409310.1	EST_HUMAN	801300938F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3635480 5'
2155	15171	26189	1.06	1.0E-36	BE146523.1	EST_HUMAN	RC1-HT0217-131199-021-h07 HT0217 Homo sapiens cDNA
2155	15171	26190	1.08	1.0E-36	BE146523.1	EST_HUMAN	RC1-HT0217-131199-021-h07 HT0217 Homo sapiens cDNA
2212	15227	26249	1.35	1.0E-36	BF673761.1	EST_HUMAN	802136493F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4272886 5'
3355	16408		1.34	1.0E-36	AF156962.1	NT	Homo sapiens human endogenous retrovirus W, provC8-19 protease (pro) gene, partial cds
5818	18908	32092	0.82	1.0E-36	AL044446.1	EST_HUMAN	DKFZp34G022_r1 434 (synonym: hlec3) Homo sapiens cDNA clone DKFZp434G022 5'
6003	19088	32286	1.3	1.0E-36	4827064	NT	Homo sapiens zinc finger protein 147 (estrogen-responsive finger protein) (ZNF147) mRNA
6307	19378		3.86	1.0E-36	AI887714.1	EST_HUMAN	wb37c12.x1 NCI_CGAP_G08 Homo sapiens cDNA clone IMAGE:2307862 3' similar to contains Alu repetitive element
6528	19592	32852	1.34	1.0E-36	R25012.1	EST_HUMAN	y336g10.r1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:34529 5' similar to SP:CAHP_HUMAN P35219 CARBONIC ANHYDRASE-RELATED PROTEIN ;
6528	19592	32853	1.34	1.0E-36	R25012.1	EST_HUMAN	y336g10.r1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:34529 5' similar to SP:CAHP_HUMAN P35219 CARBONIC ANHYDRASE-RELATED PROTEIN ;
6839	19892	33187	0.7	1.0E-36	AL120542.1	EST_HUMAN	DKFZp761A229_r1 761 (synonym: hamy2) Homo sapiens cDNA clone DKFZp761A229 5'
8293	21262	34671	2.77	1.0E-36	AA148034.1	EST_HUMAN	zo51a12.r1 Stratagene endothelial cell 937223 Homo sapiens cDNA clone IMAGE:590398 5'
8293	21262	34672	2.77	1.0E-36	AA148034.1	EST_HUMAN	zo51a12.r1 Stratagene endothelial cell 937223 Homo sapiens cDNA clone IMAGE:590398 5'
8388	21357	34764	1.15	1.0E-36	AA420467.1	EST_HUMAN	nc60e08.r1 NCI_CGAP_P11 Homo sapiens cDNA clone IMAGE:745670
8388	21357	34765	1.15	1.0E-36	AA420467.1	EST_HUMAN	nc60e08.r1 NCI_CGAP_P11 Homo sapiens cDNA clone IMAGE:745670
8520	21488	34902	0.48	1.0E-36	AU141688.1	EST_HUMAN	AU141688 THYRO1 Homo sapiens cDNA clone THYRO1001033 5'
8520	21488	34903	0.48	1.0E-36	AU141688.1	EST_HUMAN	AU141688 THYRO1 Homo sapiens cDNA clone THYRO1001033 5'
9384	22349	35781	2.72	1.0E-36	AW103858.1	EST_HUMAN	xe82b07.x1 NCI_CGAP_Bm35 Homo sapiens cDNA clone IMAGE:2614357 3'
10473	23395	36892	3.95	1.0E-36	BF364169.1	EST_HUMAN	QV3-NN1023-010600-189-h01 NN1023 Homo sapiens cDNA
10691	23613	37107	0.65	1.0E-36	AW858888.1	EST_HUMAN	RC3-CT0279-040500-017-e10 CT0279 Homo sapiens cDNA
10691	23613	37108	0.65	1.0E-36	AW858888.1	EST_HUMAN	RC3-CT0279-040500-017-e10 CT0279 Homo sapiens cDNA
11294	24244	37771	2.84	1.0E-36	AW897636.1	EST_HUMAN	CMS-NN0061-140400-147-h12 NN0061 Homo sapiens cDNA
11709	24674	38251	2.98	1.0E-36	AW504143.1	EST_HUMAN	UI-HF-BNO-ale-c-03-0-UJ.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3079277 5'
12338	25136		5.51	1.0E-36	11418177	NT	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
12777	25414		4.97	1.0E-36	AL163213.2	NT	Homo sapiens chromosome 21 segment HS21C013
13034	25579		4.02	1.0E-36	AF202723.1	NT	Homo sapiens Sad1 unc-84 domain protein 2 (SUN2) mRNA, partial cds
7607	20568	33929	2.3	9.0E-37	AF009277.1	EST_HUMAN	ws80b07.x1 NCI_CGAP_C03 Homo sapiens cDNA clone IMAGE:2504245 3'
7607	20568	33930	2.3	9.0E-37	AF009277.1	EST_HUMAN	ws80b07.x1 NCI_CGAP_C03 Homo sapiens cDNA clone IMAGE:2504245 3'
3366	16416	26342	1.17	8.0E-37	4757979	NT	Homo sapiens chimerin (chimaerin) 2 (CHN2) mRNA
5320	18426		1.6	8.0E-37	BE698077.1	EST_HUMAN	CMS-UT0003-050800-603-409 UT0003 Homo sapiens cDNA

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Table 4
Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5827	19013	32205	3.73	8.0E-37	BE350127.1	EST_HUMAN	h09g01.x1 NCI_CGAP_K1d13 Homo sapiens cDNA clone IMAGE:3146256 3' similar to contains MER29.b3 MER29 repetitive element;
5827	19013	32206	3.73	8.0E-37	BE350127.1	EST_HUMAN	h09g01.x1 NCI_CGAP_K1d13 Homo sapiens cDNA clone IMAGE:3146256 3' similar to contains MER29.b3 MER29 repetitive element;
5977	19062	32263	6.05	8.0E-37	AW840840.1	EST_HUMAN	RC1-CN0008-210100-012-a09_1 CN0008 Homo sapiens cDNA
8218	21185	34595	6.98	8.0E-37	X87344.1	NT	H.sapiens DNA, DMB, HLA-Z1, IP2, LMP2, TAP1, LMP7, TAP2, DOB, DQB2 and RING8, 9, 13 and 14 genes
1288	14324		2.33	7.0E-37	AL042800.1	EST_HUMAN	DKFZp434E0422_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434E0422 5'
1758	14788	27773	0.92	7.0E-37	AF111187.2	NT	Homo sapiens jun dimerization protein gene, partial cds; cfos gene, complete cds; and unknown gene
1759	14788	27774	0.92	7.0E-37	AF111187.2	NT	Homo sapiens jun dimerization protein gene, partial cds; cfos gene, complete cds; and unknown gene
5161	18170	31049	1.56	7.0E-37	AW968823.1	EST_HUMAN	EST1380898 IMAGE:3146256 3' similar to contains MER29.b3 MER29 repetitive element;
11109	24069	37591	8.45	7.0E-37	AI817700.1	EST_HUMAN	EST1380898 IMAGE:3146256 3' similar to contains MER29.b3 MER29 repetitive element;
11241	24194	37712	1.83	7.0E-37	AI536702.1	EST_HUMAN	h09g03.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2165140 3' similar to contains L1.b3 L1 repetitive element;
8782	21749	35171	0.59	6.0E-37	AF169689.1	NT	Homo sapiens protocadherin alpha 10 alternate isoform (PODH-alpha10) mRNA, complete cds
12903	25487		3.58	6.0E-37	AF202723.1	NT	Homo sapiens Ssd1 unc-84 domain protein 2 (SUN2) mRNA, partial cds
6212	19286	32518	4.33	5.0E-37	AA307123.1	EST_HUMAN	EST178035 Colon carcinoma (HCC) cell line Homo sapiens cDNA 5' end
6212	19286	32519	4.33	5.0E-37	AA307123.1	EST_HUMAN	EST178035 Colon carcinoma (HCC) cell line Homo sapiens cDNA 5' end
9109	22075	35501	0.88	5.0E-37	AV750211.1	EST_HUMAN	AV750211 NPC Homo sapiens cDNA clone NPC8GH09 5'
11265	24217		3.87	5.0E-37	7657117	NT	Homo sapiens glycine C-acetyltransferase (2-amino-3-ketobutyrate-CoA ligase) (GCAT), mRNA
12333	25183		6.43	5.0E-37	AF149773.1	NT	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
2431	15438	28455	2.41	4.0E-37	AA702794.1	EST_HUMAN	Z98004.s1 Soares fetal liver spleen, INFLS_S1 Homo sapiens cDNA clone IMAGE:448015 3'
4814	17831	30729	1.05	4.0E-37	MI0976.1	NT	Human endogenous retroviral DNA (4-1), complete retroviral segment
5268	18275		0.93	4.0E-37	N62051.1	EST_HUMAN	EST52610 WATM1 Homo sapiens cDNA clone 52g10 similar to human STS G04101
6419	19486	32735	0.59	4.0E-37	AW794502.1	EST_HUMAN	RC8-UM0014-210200-021 H05 UM0014 Homo sapiens cDNA
9711	22664	36121	0.57	4.0E-37	AA843806.1	EST_HUMAN	ak09c02.s1 Soares parathyroid tumor NBHPA Homo sapiens cDNA clone IMAGE:1405442 3'
2033	15052	28068	3.07	3.0E-37	AL048956.1	EST_HUMAN	DKFZp434L2418_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434L2418
2033	15052	28069	3.07	3.0E-37	AL048956.1	EST_HUMAN	DKFZp434L2418_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434L2418
2519	15522		1.74	3.0E-37	AW961150.1	EST_HUMAN	EST1379222 IMAGE:3146256 3' similar to contains MER29.b3 MER29 repetitive element;
2876	16034		3.71	3.0E-37	AW961150.1	EST_HUMAN	EST1379222 IMAGE:3146256 3' similar to contains MER29.b3 MER29 repetitive element;
5984	19049	32250	0.73	3.0E-37	AL138274.1	EST_HUMAN	DKFZp434G067_r1 547 (synonym: htrb1) Homo sapiens cDNA clone DKFZp434G067 5'

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7804	20754	34130	0.75	3.0E-37	A1749952.1	EST_HUMAN	at34c05.x1 Barstead colon HPLRB7 Homo sapiens cDNA clone IMAGE:2373896 3' similar to TR:Q13537
381	13494	28428	3.06	2.0E-37	D89780.1	NT	Q13537 SIMILAR TO POGO ELEMENT ;
381	13494	28427	3.06	2.0E-37	D89780.1	NT	Homo sapiens mRNA for AML1, complete cds
1082	14126	27079	2.49	2.0E-37	AU131202.1	EST_HUMAN	Homo sapiens mRNA for AML1, complete cds
1082	14126	27080	2.49	2.0E-37	AU131202.1	EST_HUMAN	AU131202 NT2RP3 Homo sapiens cDNA clone NT2RP3002166 5'
1981	15002	28005	2.43	2.0E-37	AL163247.2	NT	AU131202 NT2RP3 Homo sapiens cDNA clone NT2RP3002166 5'
3908	16948	29859	5.24	2.0E-37	4503210	NT	Homo sapiens chromosome 21 segment HS21C047
5462	18584	33030	0.74	2.0E-37	BF035327.1	EST_HUMAN	Homo sapiens cytochrome P450, subfamily XXVIA (steroid 27-hydroxylase, cerebrotendinous xanthomatosis), polypeptide 1 (CYP27A1b) mRNA
6696	19753	33030	0.55	2.0E-37	11890617	NT	601458531F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3862086 5'
6818	19870	33159	3.92	2.0E-37	AA348720.1	EST_HUMAN	Homo sapiens mouse thiamin pyrophosphokinase homolog (TPK1), mRNA
8329	21298	34713	0.51	2.0E-37	BE537764.1	EST_HUMAN	EST52931 Fetal heart II Homo sapiens cDNA 5' end
8329	21298	34714	0.51	2.0E-37	BE537764.1	EST_HUMAN	601067534F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3453657 5'
8372	21341	34752	3.33	2.0E-37	BF204032.1	EST_HUMAN	601067534F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3453657 5'
11885	24768	38353	8.89	2.0E-37	AF176013.1	NT	601869157F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4111406 5'
12738	25607		1.51	2.0E-37	11417872	NT	Homo sapiens J domain containing protein 1 isoform b (JDP1) mRNA, complete cds
13074	25607		4.68	2.0E-37	11417872	NT	Homo sapiens pascadillo (zebrafish) homolog 1, containing BRCT domain (PES1), mRNA
2099	15116	28138	5.41	1.0E-37	AL163281.2	NT	Homo sapiens pascadillo (zebrafish) homolog 1, containing BRCT domain (PES1), mRNA
3985	17025	28936	4.58	1.0E-37	AF169011.1	NT	Homo sapiens chromosome 21 segment HS21C081
4191	17222	30111	1.09	1.0E-37	BE872365.1	EST_HUMAN	Homo sapiens ribonuclease III (RN3) mRNA, complete cds
4878	17993	30882	2.21	1.0E-37	BF371719.1	EST_HUMAN	601448819F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3852652 5'
6119	19197		1.01	1.0E-37	7305360	NT	QV0-FN0180-280700-318-c10 FN0180 Homo sapiens cDNA
8557	21525	34943	0.7	1.0E-37	BE546032.1	EST_HUMAN	Mus musculus oligogelin (Olog), mRNA
9087	22053	35476	3.45	1.0E-37	AA171406.1	EST_HUMAN	601072419F1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3458308 5'
10971	23891	37405	0.44	1.0E-37	AV730743.1	EST_HUMAN	zp21b02.r1 Stratagene neuroepithelium (#937231) Homo sapiens cDNA clone IMAGE:610059 5' similar to contains L1 L2 L1 repetitive element ;
11058	24019	37542	2.07	1.0E-37	M22878.1	NT	AV730743 HTF Homo sapiens cDNA clone HTFAHG10 5'
12646	25328		4.28	1.0E-37	BE771614.1	EST_HUMAN	Human somatic cytochrome c (HC1) processed pseudogene, complete cds
5872	18961	32150	1.67	9.0E-38	10048482	NT	QV3-F10096-140700-243-d07 F10096 Homo sapiens cDNA
1226	14264	27221	1.85	8.0E-38	11438955	NT	Rattus norvegicus multidomain presynaptic cytomatrix protein Piccolo (LOC56766), mRNA
2508	15509	28536	2.16	8.0E-38	BF346221.1	EST_HUMAN	Homo sapiens Grb2-associated binder 2 (KIAA0571), mRNA
12998	14264	27221	1.44	8.0E-38	11438955	NT	602018401F1 NCI_OGAP_Bm67 Homo sapiens cDNA clone IMAGE:4153992 5'
3055	16112	29027	1.88	6.0E-38	BF033033.1	EST_HUMAN	Homo sapiens Grb2-associated binder 2 (KIAA0571), mRNA
							601455722F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3859348 5'

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5670	18765	31935	1.48	6.0E-38	11425114	NT	Homo sapiens zinc finger protein ZNF287 (ZNF287), mRNA
5670	18765	31938	1.48	6.0E-38	11425114	NT	Homo sapiens zinc finger protein ZNF287 (ZNF287), mRNA
7560	20513	33871	0.51	6.0E-38	8923130	NT	Homo sapiens hypothetical protein FLJ20128 (FLJ20128), mRNA
7613	20573	33938	0.74	6.0E-38	AJ010969.1	NT	Homo sapiens mRNA for potassium channel Kv4.2
7613	20573	33937	0.74	6.0E-38	AJ010969.1	NT	Homo sapiens mRNA for potassium channel Kv4.2
12189	25035		3.19	6.0E-38	11435947	NT	Homo sapiens chromosome 12 open reading frame 3 (C12ORF3), mRNA
12677	25347	31785	18.01	6.0E-38	AB020259.1	NT	Homo sapiens DNA for Human P2XM, complete cds
13052	25733	31616	1.66	6.0E-38	11418164	NT	Homo sapiens adenylosuccinate lyase (ADSL), mRNA
728	13789	28724	1.28	6.0E-38	AW971819.1	EST_HUMAN	Homo sapiens MAGL Homo sapiens cDNA
2460	15464	28487	1.24	5.0E-38	AJ23740.1	NT	Homo sapiens RIBIR gene (partial), exon 8
7228	20250	33584	1.8	5.0E-38	BE871610.1	EST_HUMAN	601450148F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3854074 5'
119	13228	26154	3.65	4.0E-38	Z25468.1	NT	B. taurus mitochondrial aspartate aminotransferase mRNA, complete CDS
119	13228	26155	3.65	4.0E-38	Z25468.1	NT	B. taurus mitochondrial aspartate aminotransferase mRNA, complete CDS
2110	15127		3.98	3.0E-38	AF003530.1	NT	Homo sapiens homeobox protein CDX4 (CDX4) gene, complete cds and flanking repeat regions
3710	18753		1.24	3.0E-38	7549807	NT	Homo sapiens HIRA Interacting protein 4 (dnal-like) (HIRIP4), mRNA
3869	15908	29817	1.68	3.0E-38	P53538	SWISSPROT	SSU72 PROTEIN
3869	15908	29818	1.68	3.0E-38	P53538	SWISSPROT	SSU72 PROTEIN
6917	25671	33284	7.83	3.0E-38	AL163300.2	NT	Homo sapiens chromosome 21 segment HS21C100
7455	20421	33776	0.6	3.0E-38	AW302461.1	EST_HUMAN	xw04401.x1 NC1_CGAP_Bri53 Homo sapiens cDNA clone IMAGE:2827009 3'
7832	20780		0.57	3.0E-38	AA378327.1	EST_HUMAN	EST191188 Synovial sarcoma Homo sapiens cDNA 5' end
7844	20791	34167	6.28	3.0E-38	BF373664.1	EST_HUMAN	CM3-FT0181-140700-241-407 F0181 Homo sapiens cDNA
8997	21963	35388	1.97	3.0E-38	H85494.1	EST_HUMAN	y88b04.r1 Soares melanocyte 2NbHM Homo sapiens cDNA clone IMAGE:249775 5'
8997	21963	35389	1.97	3.0E-38	H85494.1	EST_HUMAN	y88b04.r1 Soares melanocyte 2NbHM Homo sapiens cDNA clone IMAGE:249775 5'
10331	23255		2.06	3.0E-38	AL163248.2	NT	Homo sapiens chromosome 21 segment HS21C048
12909	18333	31171	1.46	3.0E-38	11435947	NT	Homo sapiens chromosome 12 open reading frame 3 (C12ORF3), mRNA
52	13172	26081	2.54	2.0E-38	AL163248.2	NT	Homo sapiens chromosome 21 segment HS21C048
1380	14414	27384	2.28	2.0E-38	5902097	NT	Homo sapiens SMT3 (suppressor of mit two 3, yeast) homolog 2 (SMT3H2), mRNA
1653	14685	27659	2.07	2.0E-38	AA437353.1	EST_HUMAN	zw30d01.r1 Soares ovary tumor NbHOT Homo sapiens cDNA clone IMAGE:770785 5' similar to
1653	14685	27660	2.07	2.0E-38	AA437353.1	EST_HUMAN	SW:MA12_RABIT P45701 MANNOSYL-OLIGOSACCHARIDE ALPHA-1,2-MANNOSIDASE ;
2418	15425	28448	1.11	2.0E-38	W79571.1	EST_HUMAN	zw30d01.r1 Soares ovary tumor NbHOT Homo sapiens cDNA clone IMAGE:770785 5' similar to
5271	18160	31040	0.79	2.0E-38	AA437181.1	EST_HUMAN	SW:MA12_RABIT P45701 MANNOSYL-OLIGOSACCHARIDE ALPHA-1,2-MANNOSIDASE ;
							z66g09.r1 Soares fetal heart NbHH19W Homo sapiens cDNA clone IMAGE:345664 5'
							zw61d09.r1 Soares testis NHT Homo sapiens cDNA clone IMAGE:758129 5' similar to TR:G817957
							G817957 GLYCINE RECEPTOR SUBUNIT ALPHA 4 ;

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Table 4
Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5807	18897	32079	0.61	2.0E-38	Z26634.2	NT	Homo sapiens mRNA for ankyrin B (440 kDa)
5807	18897	32080	0.61	2.0E-38	Z26634.2	NT	Homo sapiens mRNA for ankyrin B (440 kDa)
7988	20927	34322	1.27	2.0E-38	AV721103.1	EST_HUMAN	AV721103 HTB Homo sapiens cDNA clone HTBARH11 5'
8828	21795		6.59	2.0E-38	BE165980.1	EST_HUMAN	MR3-H70487-150200-113-g01 HT0487 Homo sapiens cDNA
9246	22212	35642	0.55	2.0E-38	F06450.1	EST_HUMAN	HSC18F031 normalized infant brain cDNA Homo sapiens cDNA clone c-18f03
9316	22281	35711	1.21	2.0E-38	AF069755.1	NT	Homo sapiens orphan G protein-coupled receptor HG20 (HG20) mRNA, complete cds
9576	22538		1.04	2.0E-38	BE22256.1	EST_HUMAN	hu09g02.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3166130 3' similar to TR:O02710 O02710
10815	23736	37239	1.74	2.0E-38	D63479.2	NT	GAG POLYPROTEIN.
11819	24702	38284	4.62	2.0E-38	BE712790.1	EST_HUMAN	Homo sapiens mRNA for KIAA0145 protein, partial cds
11955	24834	38429	3.66	2.0E-38	AF190501.1	NT	QV2-H70698-080800-283-a05 HT0698 Homo sapiens cDNA
11955	24834	38430	3.66	2.0E-38	AF190501.1	NT	Homo sapiens leucine-rich repeat-containing G protein-coupled receptor 6 (LGR6) mRNA, partial cds
12240	25071		3.39	2.0E-38	AV726988.1	EST_HUMAN	Homo sapiens leucine-rich repeat-containing G protein-coupled receptor 6 (LGR6) mRNA, partial cds
12242	25072		2.13	2.0E-38	AB012723.1	NT	AV726988 HTC Homo sapiens cDNA clone HTCAHX07 5'
12538	25262		2.51	2.0E-38	M55630.1	NT	Homo sapiens gene for kinesin-like protein, complete cds
12548	25271	31810	6.8	2.0E-38	H55641.1	EST_HUMAN	Human topoisomerase I pseudogene 2
13065	25599		3	2.0E-38	11418248	NT	CHR220580 Chromosome 22 exon Homo sapiens cDNA clone C22_788 5'
1095	14139		2.38	1.0E-38	AA401570.1	EST_HUMAN	Homo sapiens sulfotransferase-related protein (SULTX3), mRNA
2015	15036	28047	1.92	1.0E-38	4885288	NT	z062b02.f1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:742539 5' similar to contains element
2035	15054	28071	1.17	1.0E-38	7661969	NT	MER19 repetitive element
2502	15505	28532	2.01	1.0E-38	AF270831.1	NT	Homo sapiens guanine nucleotide binding protein-like 1 (GNL1), mRNA
4182	17213	30101	0.99	1.0E-38	AB037863.1	NT	Homo sapiens KIAA0173 gene product (KIAA0173), mRNA
4352	17379	30259	10.48	1.0E-38	AL163203.2	NT	Homo sapiens cyclin K (CCNK) gene, exon 7
4352	17379	30260	10.48	1.0E-38	AL163203.2	NT	Homo sapiens mRNA for KIAA1442 protein, partial cds
4627	17648	30536	0.93	1.0E-38	8922543	NT	Homo sapiens chromosome 21 segment HS21C003
5143	18152	31032	0.77	1.0E-38	AA077526.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C003
6143	19218	32447	6.58	1.0E-38	7305360	NT	Homo sapiens hypothetical protein FLJ10800 (FLJ10800), mRNA
6143	19218	32448	6.58	1.0E-38	7305360	NT	7844H08 Chromosome 7 Fetal Brain cDNA Library Homo sapiens cDNA clone 7844H08
7634	20584	33957	3.03	1.0E-38	AB014512.1	NT	Mus musculus otogelin (Otog), mRNA
9508	22471	35915	0.55	1.0E-38	11422250	NT	Mus musculus otogelin (Otog), mRNA

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Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9765	22706	36162	6.34	1.0E-38	BE350127.1	EST_HUMAN	ht09g01.x1 NCI_CGAP_Kid13 Homo sapiens cDNA clone IMAGE:3146256 3' similar to contains MER29.b3
12401	25712		2.08	1.0E-38	AL163284.2	NT	MER29 repetitive element;
56	13176	26087	5.73	8.0E-39	4502312	NT	Homo sapiens chromosome 21 segment HS21C084
1395	14429	27398	0.94	8.0E-39	4758229	NT	Homo sapiens ATPase, H+ transporting, lysosomal (vacuolar proton pump) 16kD (ATP6C) mRNA
1846	14872		1.54	8.0E-39	AB23404.1	EST_HUMAN	Homo sapiens estrogen receptor-binding fragment-associated gene 9 (EBAG9) mRNA
2105	15122	28142	5.19	7.0E-39	AL163227.2	NT	wh53f10.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3284491 3' similar to TR:P87890 P87890
11180	24118	37845	1.8	6.0E-39	BF31829.1	EST_HUMAN	POL PROTEIN;
12981	25545		3.12	6.0E-39	BE670394.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C027
1009	14058	27010	1.43	5.0E-39	AF003528.1	NT	QV1-BT0631-040900-357-02 BT0631 Homo sapiens cDNA
							7es4c03.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3284356 3' similar to WP:R151.6
							CE00828;
							Homo sapiens X-linked anhidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
2998	16056	28976	8.13	5.0E-39	AI750154.1	EST_HUMAN	at36b04.x1 Barslead cdon HPLRB7 Homo sapiens cDNA clone IMAGE:2374063 3' similar to TR:Q15408
12689	25356		2.82	5.0E-39	11420289	NT	Q15408 NEUTRAL PROTEASE LARGE SUBUNIT contains LTR7.1 LTR7 repetitive element;
552	13622	26542	20.77	4.0E-39	AB015610.1	NT	Homo sapiens hypothetical protein FLJ10803 (FLJ10803), mRNA
3587	16832	29550	0.92	4.0E-39	AL163210.2	NT	Chlorocebus aethiops mRNA for ribosomal protein S4X, complete cds
5928	19014	32207	0.65	4.0E-39	11422113	NT	Homo sapiens chromosome 21 segment HS21C010
5928	19014	32208	0.65	4.0E-39	11422113	NT	Homo sapiens EBNA-2 co-activator (100kD) (p100), mRNA
8411	21380	34786	1.14	4.0E-39	AA682949.1	EST_HUMAN	Homo sapiens EBNA-2 co-activator (100kD) (p100), mRNA
9884	22637	36092	0.61	4.0E-39	D84116.1	NT	ae02g04.s1 Stragene schizo brain S11 Homo sapiens cDNA clone IMAGE:1020438 3' similar to contains OFR.b1 ORF repetitive element;
9884	22637	36093	0.61	4.0E-39	D84116.1	NT	Homo sapiens DNA for prostacyclin synthase, exon 2
12704	25363		3.29	4.0E-39	11418177	NT	Homo sapiens DNA for prostacyclin synthase, exon 2
12819	25441		3.15	4.0E-39	BE836452.1	EST_HUMAN	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
49	13169	26075	14.8	3.0E-39	AA631949.1	EST_HUMAN	QV0-FN0063-260600-278-c06 FN0063 Homo sapiens cDNA
49	13169	26076	14.8	3.0E-39	AA631949.1	EST_HUMAN	fmf1c16 Regional genomic DNA specific cDNA library Homo sapiens cDNA clone CR12-1
49	13169	26077	14.8	3.0E-39	AA631949.1	EST_HUMAN	fmf1c16 Regional genomic DNA specific cDNA library Homo sapiens cDNA clone CR12-1
12233	25065	38163	6.14	3.0E-39	A084557.1	EST_HUMAN	ox63a10.s1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:1660986 3' similar to SW:GTR5_RAT
12233	25065	38164	6.14	3.0E-39	A084557.1	EST_HUMAN	P43427 GLUCOSE TRANSPORTER TYPE 5, SMALL INTESTINE;
							P43427 GLUCOSE TRANSPORTER TYPE 5, SMALL INTESTINE;

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1282	25100		11.16	3.0E-39	H37903.1	EST_HUMAN	yp51c06.s1 Soares retina N2b4HR Homo sapiens cDNA clone IMAGE:190954 3'
898	13953		9.79	2.0E-39	BE409203.1	EST_HUMAN	601301607F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3636289 5'
913	13968		13.84	2.0E-39	A1525119.1	EST_HUMAN	promtra-7.D01.1 bvtumor Homo sapiens cDNA 5'
1033	14079		4.67	2.0E-39	AF000573.1	NT	Homo sapiens homocitrate 1,2-dioxygenase gene, complete cds
1532	14585		24.51	2.0E-39	AW372318.1	EST_HUMAN	PM0-BT0340-211299-003-d02 BT0340 Homo sapiens cDNA
1990	15011	28017	3.62	2.0E-39	AA720574.1	EST_HUMAN	hw21g02.s1 NCL_CGAP_GCB0 Homo sapiens cDNA clone IMAGE:1241138 3' similar to contains THR13 THR repetitive element;
2636	15635	28659	2.3	2.0E-39	AL163248.2	NT	Homo sapiens chromosome 21 segment HS21C048
4431	17458	30349	1.68	2.0E-39	BF370207.1	EST_HUMAN	RC4-FN0037-290700-011-a10 FN0037 Homo sapiens cDNA
5588	18685	31624	4.2	2.0E-39	AA508880.1	EST_HUMAN	ng86f03.s1 NCL_CGAP_P76 Homo sapiens cDNA clone IMAGE:941693
7594	20555	33915	2.34	2.0E-39	AA080867.1	EST_HUMAN	zn06f02.r1 Stralagene hNT neuron (#937233) Homo sapiens cDNA clone IMAGE:546651 5'
7776	20729	34101	0.61	2.0E-39	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
7776	20729	34102	0.61	2.0E-39	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
8653	21621	35041	0.56	2.0E-39	AF078779.1	NT	Rattus norvegicus putative four repeat ion channel mRNA, complete cds
9851	22787		1.32	2.0E-39	AA984531.1	EST_HUMAN	am88c11.s1 Stralagene schizo brain S11 Homo sapiens cDNA clone IMAGE:1630198 3'
9984	22911		0.53	2.0E-39	A1686660.1	EST_HUMAN	lu35e03.x1 NCL_CGAP_P728 Homo sapiens cDNA clone IMAGE:2253052 3'
11761	24689	39271	2.56	2.0E-39	D86964.1	NT	Human mRNA for KIAA0209 gene, partial cds
1516	14548	27520	3.52	1.0E-39	AJ006345.1	NT	Homo sapiens KVLQ11 gene
1516	14548	27521	3.52	1.0E-39	AJ006345.1	NT	Homo sapiens KVLQ11 gene
1533	14586	27535	6.96	1.0E-39	7657020	NT	Homo sapiens DKFZp434P211 protein (DKFZP434P211), mRNA
4689	17710	30603	6.87	1.0E-39	AW951995.1	EST_HUMAN	EST364065 MAGE resequences, MAGB Homo sapiens cDNA
4689	17710	30604	6.87	1.0E-39	AW951995.1	EST_HUMAN	EST364065 MAGE resequences, MAGB Homo sapiens cDNA
4731	17751	30643	8.48	1.0E-39	7657020	NT	Homo sapiens DKFZp434P211 protein (DKFZP434P211), mRNA
5432	18534	31442	0.87	1.0E-39	11417342	NT	Homo sapiens sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A (SEMA5A), mRNA
5432	18534	31443	0.87	1.0E-39	11417342	NT	Homo sapiens sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A (SEMA5A), mRNA
5711	18805	31982	1.2	1.0E-39	T80876.1	EST_HUMAN	yd26g06.r1 Soares fetal liver spleen 1NLS Homo sapiens cDNA clone IMAGE:109402 5' similar to contains Alu repetitive element; contains LTR1 repetitive element;
5747	18841	32023	4.7	1.0E-39	AJ278170.1	NT	Mus musculus mRNA for neuronal interacting factor X1 (NIX1) (Nix1 gene)
5747	18841	32024	4.7	1.0E-39	AJ278170.1	NT	Mus musculus mRNA for neuronal interacting factor X1 (NIX1) (Nix1 gene)
7000	20126		1.68	1.0E-39	11436736	NT	Homo sapiens tubby like protein 3 (TULP3), mRNA
7589	20550	33911	2.1	1.0E-39	D78132.1	NT	Homo sapiens mRNA for ras-related GTP-binding protein, complete cds
8910	21876	35302	0.96	1.0E-39	O49530	SWISSPROT	RIBONUCLEASE K6 PRECURSOR (RNASE K6)

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
557	13627	26545	1.8	9.0E-40	5803210	NT	Homo sapiens UDP-glucose pyrophosphorylase 2 (UGP2), mRNA
1239	14275	27234	14.84	9.0E-40	4755145	NT	Homo sapiens AE-binding protein 1 (AEBP1) mRNA
1239	14275	27235	14.84	9.0E-40	4755145	NT	Homo sapiens AE-binding protein 1 (AEBP1) mRNA
1443	14476	27453	0.99	9.0E-40	4507512	NT	Homo sapiens tissue inhibitor of metalloproteinase 3 (Sorsby fundus dystrophy, pseudoinflammatory) (TIMP3) mRNA
3789	16839	29746	0.88	9.0E-40	4503764	NT	Homo sapiens fragile X mental retardation 1 (FMR1) mRNA
3997	18315	29943	4.05	9.0E-40	AB033070.1	NT	Homo sapiens mRNA for KIAA1244 protein, partial cds
4527	17401	30281	0.78	9.0E-40	4507848	NT	Homo sapiens ubiquitin specific protease 13 (isopeptidase T-3) (USP13) mRNA
3054	16111	29026	0.91	8.0E-40	AA078165.1	EST_HUMAN	7H15A04 Chromosome 7 HeLa cDNA Library Homo sapiens cDNA clone 7H15A04
3945	16985		2.39	8.0E-40	BE306541.1	EST_HUMAN	60128898F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3819166 5'
7985	20924	34317	2.22	7.0E-40	U80325.1	NT	Human DNA polymerase gamma mRNA, nuclear gene encoding mitochondrial protein, complete cds
7985	20924	34318	2.22	7.0E-40	U80325.1	NT	Human DNA polymerase gamma mRNA, nuclear gene encoding mitochondrial protein, complete cds
11243	24196	37715	1.76	7.0E-40	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C048
2737	15731	28746	7.5	6.0E-40	AA361275.1	EST_HUMAN	EST70527 T-cell lymphoma Homo sapiens cDNA 5' end similar to zinc finger protein family
2737	15731	28747	7.5	6.0E-40	AA361275.1	EST_HUMAN	EST70527 T-cell lymphoma Homo sapiens cDNA 5' end similar to zinc finger protein family
6049	19130		2.05	6.0E-40	BE504766.1	EST_HUMAN	hz40g01.x1 NCI_CGAP_G06 Homo sapiens cDNA clone IMAGE:3210480 3'
6270	19343		1.32	6.0E-40	7661999	NT	Homo sapiens KIAA0211 gene product (KIAA0211), mRNA
7121	20055	33359	3.38	6.0E-40	11439783	NT	Homo sapiens fatty acid desaturase 1 (FADS1), mRNA
7121	20055	33360	3.38	6.0E-40	11439783	NT	Homo sapiens fatty acid desaturase 1 (FADS1), mRNA
10336	23260	36738	9.47	6.0E-40	AV653028.1	EST_HUMAN	AV653028 GLC Homo sapiens cDNA clone GLCDGF04 3'
10336	23260	36739	9.47	6.0E-40	AV653028.1	EST_HUMAN	AV653028 GLC Homo sapiens cDNA clone GLCDGF04 3'
2612	15611	28635	1.12	5.0E-40	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
1894	14919	27915	3.21	4.0E-40	AI686005.1	EST_HUMAN	tt91b01.x1 NCI_CGAP_P128 Homo sapiens cDNA clone IMAGE:2248873 3' similar to TR:O73505 O73505 POL PROTEIN ;
2117	15134		2.22	4.0E-40	AF003528.1	NT	Homo sapiens X-linked anhidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
4415	17442	30333	8.57	4.0E-40	7662117	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
8218	21187	34597	0.44	4.0E-40	AU127831.1	EST_HUMAN	AU127831 NT25P2 Homo sapiens cDNA clone NT2RP2002172 5'
8324	21293	34707	4.81	4.0E-40	AA742809.1	EST_HUMAN	inv34e10.11 NCI_CGAP_Br4 Homo sapiens cDNA clone IMAGE:1222122
9410	22375	35812	5.53	4.0E-40	BE009416.1	EST_HUMAN	PMO-BN0167-070500-002-h12 BN0167 Homo sapiens cDNA

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9410	22375	35613	5.53	4.0E-40	BE009416.1	EST_HUMAN	PM0-BN0167-070500-002-h12 BN0167 Homo sapiens cDNA
11071	24033	37557	1.68	4.0E-40	AW841585.1	EST_HUMAN	RC1-CN0017-120200-012-e04 CN0017 Homo sapiens cDNA
4158	17189	30077	1.02	3.0E-40	A1825949.1	EST_HUMAN	wh1287.x1 NCI_CGAP_K1d11 Homo sapiens cDNA clone IMAGE:2380549 3'
6607	19685	32940	0.66	3.0E-40	4508736	NT	Homo sapiens ribosomal protein S6 kinase, 70kD, polypeptide 1 (RPS8KB1) mRNA
6766	19850	33135	7.99	3.0E-40	11417342	NT	Homo sapiens sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A (SEMA5A), mRNA
8724	21692	35118	3.94	3.0E-40	5454167	NT	Homo sapiens HBV associated factor (XAP4) mRNA
9320	22285	35715	1.23	3.0E-40	AF078779.1	NT	Rattus norvegicus putative four repeat ion channel mRNA, complete cds
9566	22526	36977	1.34	3.0E-40	AF078779.1	NT	Rattus norvegicus putative four repeat ion channel mRNA, complete cds
11597	24535	38092	9.3	3.0E-40	6006813	NT	Homo sapiens serine threonine protein kinase (NDR), mRNA
325	13416		4.59	2.0E-40	A1223036.1	EST_HUMAN	qg52h08.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1838847 3'
795	13854		28.28	2.0E-40	AW303868.1	EST_HUMAN	xr24e10.x1 NCI_CGAP_U14 Homo sapiens cDNA clone IMAGE:2761098 3' similar to SW:RS5_MOUSE
1842	14868		1.77	2.0E-40	AV731601.1	EST_HUMAN	P97461 40S RIBOSOMAL PROTEIN S6 ;
1951	14874	27973	1.94	2.0E-40	4506188	NT	Homo sapiens proteasome (prosome, macropain) subunit, alpha type, 7 (PSMA7) mRNA, and translated products
1951	14974	27974	1.94	2.0E-40	4506188	NT	Homo sapiens proteasome (prosome, macropain) subunit, alpha type, 7 (PSMA7) mRNA, and translated products
2085	15102	28119	1.01	2.0E-40	A1968562.1	EST_HUMAN	w90a11.x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2514716 3' similar to TR:Q91829 Q91929
2179	15194	28215	1.84	2.0E-40	5453592	NT	ZINC FINGER PROTEIN ;
2700	15696		1.79	2.0E-40	BE275932.1	EST_HUMAN	Homo sapiens adenyl cyclase-associated protein 2 (CAP2) mRNA
3143	16200	29111	4.44	2.0E-40	5453592	NT	601121567F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3345784 5'
4937	17953	30845	1.7	2.0E-40	AL163280.2	NT	Homo sapiens adenyl cyclase-associated protein 2 (CAP2) mRNA
4937	17953	30846	1.7	2.0E-40	AL163280.2	NT	Homo sapiens chromosome 21 segment HS21C080
5237	18245	31117	1.12	2.0E-40	4505880	NT	Homo sapiens chromosome 21 segment HS21C080
884	13939		1.63	1.0E-40	AA225989.1	EST_HUMAN	Homo sapiens plasminogen (PLG) mRNA
2629	18628	28653	1.47	1.0E-40	BF036881.1	EST_HUMAN	nc09a09.x1 NCI_CGAP_P11 Homo sapiens cDNA clone IMAGE:1007608
2696	16692		1.54	1.0E-40	BE018348.1	EST_HUMAN	601480375F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3663803 5'
2747	15740	28756	1.38	1.0E-40	BF541030.1	EST_HUMAN	b678a10.y1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3048570 5' similar to TR:Q9Z168 Q9Z168
2747	15740	28757	1.38	1.0E-40	BF541030.1	EST_HUMAN	SYNTAXIN 17 ;
3309	16362		1.98	1.0E-40	4507142	NT	602068604F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:4067736 5'
4640	17661	30549	4.18	1.0E-40	4508012	NT	602068604F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:4067736 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6384	19452	32695	0.73	1.0E-40	W92708.1	EST_HUMAN	zh79f11.s1 Soares fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:418317 3'
6384	19452	32696	0.73	1.0E-40	W92708.1	EST_HUMAN	zh79f11.s1 Soares fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:418317 3'
7293	20265	33559	1.92	1.0E-40	AA573201.1	EST_HUMAN	h4204.s1 NCI CGAP_AA1 Homo sapiens cDNA clone IMAGE:985167 3'
7293	20265	33600	1.92	1.0E-40	AA573201.1	EST_HUMAN	h4204.s1 NCI CGAP_AA1 Homo sapiens cDNA clone IMAGE:985167 3'
7443	20409	33761	0.84	1.0E-40	P26808	SWISSPROT	POL POLYPROTEIN [CONTAINS: PROTEASE: REVERSE TRANSCRIPTASE, RIBONUCLEASE H]
11262	24214	37738	2.42	1.0E-40	AU149345.1	EST_HUMAN	AU149345 NT2RM4 Homo sapiens cDNA clone NT2RM4002122 3'
12659	25847		14.2	1.0E-40	BF334112.1	EST_HUMAN	MR2-CT0222-211099-002-e10 CT0222 Homo sapiens cDNA
12813	25822		1.64	1.0E-40	Z00015.1	NT	H.sapiens V(k) gene low repetitive L-family member (cos 20)
8254	21223	34633	1.59	8.0E-41	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
829	15852	26840	1.81	7.0E-41	A1934364.1	EST_HUMAN	wp04h04.x1 NCI CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2463895 3'
829	15852	26841	1.81	7.0E-41	A1934364.1	EST_HUMAN	wp04h04.x1 NCI CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2463895 3'
5337	18442	31195	0.95	7.0E-41	11545770	NT	Homo sapiens hypothetical protein FLJ13188 (FLJ13188), mRNA
6124	18202	32426	2.97	7.0E-41	11419208	NT	Homo sapiens a disintegrin and metalloproteinase domain 22 (ADAM22), mRNA
6488	19553	32803	1.08	7.0E-41	11433010	NT	Homo sapiens IQ motif containing GTPase activating protein 1 (IQGAP1), mRNA
7186	18417	31218	0.88	7.0E-41	U72335.1	NT	Human platelet activating factor acetylhydrolase, brain isoform, 45 kDa subunit (LIS1) gene, exons 3 and 4
11783	24891	38272	2.6	7.0E-41	4758445	NT	Homo sapiens guanine nucleotide binding protein 10 (GNG10) mRNA
13072	25844		10.83	7.0E-41	11417872	NT	Homo sapiens pescadillo (zebrafish) homolog 1, containing BRCT domain (PES1), mRNA
280	13375	26304	0.65	6.0E-41	AB037163.1	NT	Homo sapiens DSCR5b mRNA, complete cds
2120	15137	28157	1.67	6.0E-41	7657042	NT	Homo sapiens Down syndrome candidate region 1 (DSCR1), mRNA
8304	21273	34684	1.59	6.0E-41	BF513783.1	EST_HUMAN	UJ-H-BW1-amp-b-03-0-JJ.s1 NCI CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3070421 3'
1819	14846	27838	1.75	5.0E-41	T62628.1	EST_HUMAN	yc03e10.s1 Stratagene lung (#637210) Homo sapiens cDNA clone IMAGE:79626 3'
4134	17166		1.03	5.0E-41	4885636	NT	Homo sapiens target of myb1 (chicken) homolog (TOM1), mRNA
6898	19755		2.06	5.0E-41	BE067042.1	EST_HUMAN	PM4-BT0341-251199-002-F11 BT0341 Homo sapiens cDNA
391	13466		1.73	4.0E-41	BE156318.1	EST_HUMAN	QV0-HT0367-150200-114-g08 HT0367 Homo sapiens cDNA
1100	14144	27094	1.16	4.0E-41	AU119344.1	EST_HUMAN	AU119344 HEMBA1 Homo sapiens cDNA clone HEMBA1005583 5'
1408	14441	27411	9.16	4.0E-41	A1027117.1	EST_HUMAN	ow45e06.s1 Soares parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:1649794 3' similar to TR:O00597 O00597 CYTOCHROME C-LIKE POLYPEPTIDE, contains LTR5.b1 LTR5 repetitive element:
1408	14441	27412	9.16	4.0E-41	A1027117.1	EST_HUMAN	ow45e06.s1 Soares parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:1649794 3' similar to TR:O00597 O00597 CYTOCHROME C-LIKE POLYPEPTIDE, contains LTR5.b1 LTR5 repetitive element:
1420	14453	27427	2.75	4.0E-41	AB008681.1	NT	Homo sapiens gene for activin receptor type IIB, complete cds

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Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1641	14873	27646	6.9	4.0E-41	AI500406.1	EST_HUMAN	hm96c04.x1 NCI_CGAP_Bin25 Homo sapiens cDNA clone IMAGE:2165958 3' similar to contains OFR.b1 OFR repetitive element.
2899	15958	28876	3.56	4.0E-41	AJ229041.1	NT	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22; segment 1/3
2899	15958	28877	3.56	4.0E-41	AJ229041.1	NT	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22; segment 1/3
4168	17199	30085	2.26	4.0E-41	X92685.1	NT	[H.sapiens DNase I hypersensitive site (HSS-3) enhancer element
6858	19715		1.31	4.0E-41	AV758295.1	EST_HUMAN	AV758295 BM Homo sapiens cDNA clone BMFBHC06 5'
10052	22979	36446	8.41	4.0E-41	BF304683.1	EST_HUMAN	601880096F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4122119 5'
11981	24858		11.56	4.0E-41	AV710480.1	EST_HUMAN	Homo sapiens PAD-H19 mRNA for peptidylarginine deaminase type II, complete cds
947	14000	28952	2.51	3.0E-41	AB030176.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
4362	17389	30271	2.6	3.0E-41	AB028898.1	NT	Homo sapiens mRNA for KIAA1327 protein, partial cds
5148	18157		1.15	3.0E-41	AB037748.1	NT	H.sapiens mRNA for putative p64 CLCP protein
5569	18666	31625	9.46	3.0E-41	X87689.1	NT	Homo sapiens mRNA for KIAA1387 protein, partial cds
6518	19581	32839	1.61	3.0E-41	AB037808.1	NT	EST94683 Jurkat T-cells VI Homo sapiens cDNA 5' end
7473	20439	33767	0.62	3.0E-41	AA356168.1	EST_HUMAN	Y76408.1 Soares breast 2N6HBst Homo sapiens cDNA clone IMAGE:154575 5'
8072	21009	34407	0.52	3.0E-41	R54785.1	EST_HUMAN	QVO-BN0040-170300-160-H08 BN0040 Homo sapiens cDNA
12116	24988	38587	3.46	3.0E-41	AW994941.1	EST_HUMAN	QVO-BN0040-170300-160-H08 BN0040 Homo sapiens cDNA
12116	24988	38588	3.46	3.0E-41	AW994941.1	EST_HUMAN	QVO-BN0040-170300-160-H08 BN0040 Homo sapiens cDNA
12195	25040		1.49	3.0E-41	AA609768.1	EST_HUMAN	af1710.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1031947 3'
1841	14595	27570	15.21	2.0E-41	U43701.1	NT	Human ribosomal protein L23a mRNA, complete cds
1975	14996	27698	2.16	2.0E-41	AA331940.1	EST_HUMAN	EST35818 Embryo, 8 week Homo sapiens cDNA 5' end
2228	15242	28267	1.37	2.0E-41	D89982.1	NT	Human mRNA for KIAA0207 gene, complete cds
2276	15289	28314	4.43	2.0E-41	X89631.1	NT	G.gorilla DNA for ZNF80 gene homolog
2839	14595	27570	7.99	2.0E-41	U43701.1	NT	Human ribosomal protein L23a mRNA, complete cds
3851	16891	29795	0.9	2.0E-41	5032106	NT	Homo sapiens son of sevenless (Drosophila) homolog 1 (SOS1) mRNA
4852	17673	30560	1.13	2.0E-41	AL163267.2	NT	Homo sapiens chromosome 21 segment HS21C067
4852	17673	30561	1.13	2.0E-41	AL163267.2	NT	Homo sapiens chromosome 21 segment HS21C067
5617	18713	31871	0.61	2.0E-41	AA584575.1	EST_HUMAN	no12c07.s1 NCI_CGAP_Phe1 Homo sapiens cDNA clone IMAGE:1100460 3' similar to gb.X52851_ma1 PEPTIDYL-PROLYL CIS-TRANS ISOMERASE A (HUMAN);
6782	19837	33121	0.85	2.0E-41	4504778	NT	Homo sapiens integrin, beta 8 (ITGB8) mRNA
7935	20877	34257	6.36	2.0E-41	AF038404.1	NT	Homo sapiens homolog of Nedd5 (Nedd5) mRNA, complete cds
8148	21085	34484	0.6	2.0E-41	11422047	NT	Homo sapiens origin recognition complex, subunit 5 (yeast homolog)-like (ORCSL), mRNA
8403	21372	34780	1.63	2.0E-41	M96944.1	NT	Human B-cell specific transcription factor (BSAP) mRNA, complete cds
8403	21372	34781	1.63	2.0E-41	M96944.1	NT	Human B-cell specific transcription factor (BSAP) mRNA, complete cds

Table 4
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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8433	21402	34815	1.47	2.0E-41	AA328285.1	EST_HUMAN	EST131723 Embryo, 12 week Homo sapiens cDNA 5' end
9326	22281	35721	1.61	2.0E-41	P52742	SWISSPROT	ZINC FINGER PROTEIN 135
9772	22713	36167	0.72	2.0E-41	11417118	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
9772	22713	36168	0.72	2.0E-41	11417118	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
11815	24700	38281	2.21	2.0E-41	AA372637.1	EST_HUMAN	EST84555 Colon adenocarcinoma IV Homo sapiens cDNA 5' end
3219	18274	29197	1.33	1.0E-41	BE869735.1	EST_HUMAN	601445847F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3849803 5'
3219	18274	29198	1.33	1.0E-41	BE869735.1	EST_HUMAN	601445847F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3849803 5'
4598	17619	30512	7.8	1.0E-41	6678468	NT	Mus musculus tubulin alpha 6 (Tuba6), mRNA
7026	18358	31278	0.49	1.0E-41	H99079.1	EST_HUMAN	YK1803.s1 Soares melanocyte 2NtHM Homo sapiens cDNA clone IMAGE:262061 3'
9773	22714	36169	1.73	1.0E-41	AI217868.1	EST_HUMAN	q75c10.x1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:1756858 3'
11494	24437	37886	1.56	1.0E-41	AW847812.1	EST_HUMAN	IL3-CT0213-190200-040-F09 CT0213 Homo sapiens cDNA
12332	25132		2.72	1.0E-41	11526291	NT	Homo sapiens hypothetical protein FLJ20454 (FLJ20454), mRNA
8865	21832		1.06	9.0E-42	BE179191.1	EST_HUMAN	RC0-HT0613-210300-032-g01 HT0613 Homo sapiens cDNA
9529	22492	35839	3.08	9.0E-42	11580151	NT	Homo sapiens hypothetical C2H2 zinc finger protein FLJ22504 (FLJ22504), mRNA
9529	22492	35940	3.08	9.0E-42	11580151	NT	Homo sapiens hypothetical C2H2 zinc finger protein FLJ22504 (FLJ22504), mRNA
463	13538	28462	6.85	8.0E-42	AF0035530.1	NT	Homo sapiens homeobox protein CDX4 (CDX4) gene, complete cds and flanking repeat regions
2118	15135	28155	1.18	8.0E-42	AB028898.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
5197	18206	31080	1.06	8.0E-42	6878031	NT	Mus musculus neural precursor cell expressed, developmentally down-regulated gene 1 (Nedd1), mRNA
12376	25850		28	8.0E-42	AA493898.1	EST_HUMAN	ht07c02.s1 NCI_CGAP_Thy1 Homo sapiens cDNA clone IMAGE:943586 similar to TR:G434304 G434304 387BP EXPRESSED SEQUENCE TAG MRNA
12394	25726		1.55	8.0E-42	AW08062.1	EST_HUMAN	xc87e04.x1 NCI_CGAP_Bm35 Homo sapiens cDNA clone IMAGE:2592174 3' similar to contains OFR.12
932	13985		1.46	7.0E-42	AL163285.2	NT	OFR repetitive element
8814	21781		0.8	7.0E-42	R10963.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C085
9599	22603	36052	1.67	7.0E-42	AI204358.1	EST_HUMAN	y38g04.r1 Soares fetal liver spleen 1NfLS Homo sapiens cDNA clone IMAGE:129174 5'
11508	24450	38000	3.47	7.0E-42	AA569592.1	EST_HUMAN	qf58g12.x1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:1754278 3'
11508	24450	38001	3.47	7.0E-42	AA569592.1	EST_HUMAN	nt23g07.s1 NCI_CGAP_P1 Homo sapiens cDNA clone IMAGE:914652
1873	14898	27895	3.35	6.0E-42	AF012872.1	NT	nt23g07.s1 NCI_CGAP_P1 Homo sapiens cDNA clone IMAGE:914652
1873	14898	27896	3.35	6.0E-42	AF012872.1	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (p4K230) mRNA, complete cds
2297	15309		5.49	6.0E-42	AW238656.1	EST_HUMAN	Homo sapiens phosphatidylinositol 4-kinase 230 (p4K230) mRNA, complete cds
							xp28f08.x1 NCI_CGAP_HN10 Homo sapiens cDNA clone IMAGE:2741799 3' similar to contains L1.11 L1 repetitive element

Table 4
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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5039	18052		1.46	6.0E-42	AF284770.1	EST_HUMAN	qu24h09.x1 NCI_CGAP_Br12 Homo sapiens cDNA clone IMAGE:1965761 similar to contains Alu repetitive element;
5543	18640	31580	1.6	6.0E-42	AB028990.1	NT	Homo sapiens mRNA for KIAA1067 protein, partial cds
5605	18640	31580	1.37	6.0E-42	AB028990.1	NT	Homo sapiens mRNA for KIAA1067 protein, partial cds
136	13241		5.99	5.0E-42	AJ271735.1	NT	Homo sapiens Xq pseudautosomal region; segment 1/2
438	13512	26443	1.7	5.0E-42	BE217913.1	EST_HUMAN	h31e11.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3175052 3'
487	13560		4.65	5.0E-42	5730038	NT	Homo sapiens SET domain and mariner transposase fusion gene (SETMAR) mRNA
488	13561		1.37	5.0E-42	5730038	NT	Homo sapiens SET domain and mariner transposase fusion gene (SETMAR) mRNA
6844	19897	33191	1.07	5.0E-42	11433063	NT	Homo sapiens ubiquitin protein ligase E3A (human papilloma virus E6-associated protein, Angelman syndrome) (UBE3A), mRNA
6844	19897	33192	1.07	5.0E-42	11433063	NT	Homo sapiens ubiquitin protein ligase E3A (human papilloma virus E6-associated protein, Angelman syndrome) (UBE3A), mRNA
6971	20184	33522	2.61	5.0E-42	11417957	NT	Homo sapiens myotubularin related protein 3 (MTMR3), mRNA
7409	20376	33727	1.6	5.0E-42	AF071569.1	NT	Homo sapiens multifunctional calcium/calmodulin-dependent protein kinase II delta2 isoform mRNA, complete cds
8110	21047	34447	0.51	5.0E-42	4826977	NT	Homo sapiens reelin (RELN) mRNA
9131	22097	35524	2.98	5.0E-42	AB037715.1	NT	Homo sapiens mRNA for KIAA1294 protein, partial cds
10970	23890	37403	0.48	5.0E-42	11431188	NT	Homo sapiens 3-hydroxyanthranilate 3,4-dioxygenase (HAAO), mRNA
10970	23890	37404	0.48	5.0E-42	11431188	NT	Homo sapiens 3-hydroxyanthranilate 3,4-dioxygenase (HAAO), mRNA
12087	24959	38555	3.28	5.0E-42	X98411.1	NT	H. sapiens mRNA for myosin-IE
12087	24959	38558	3.28	5.0E-42	X98411.1	NT	H. sapiens mRNA for myosin-IE
754	13815	26758	23.04	4.0E-42	AF055066.1	NT	Homo sapiens MHC class I region
754	13815	26759	23.04	4.0E-42	AF055066.1	NT	Homo sapiens MHC class I region
1067	14112	27062	2.03	4.0E-42	AF180011.1	NT	Homo sapiens MHC class I region
4223	17252	30139	1.24	4.0E-42	X98417.1	NT	H. sapiens ribonuclease III (RN3) mRNA, complete cds
4255	17284	30166	1.12	4.0E-42	AF246219.1	NT	H. sapiens PROS-27 mRNA
4277	17308	30185	4.28	4.0E-42	4506496	NT	Homo sapiens SNARE protein kinase SNAK mRNA, complete cds
4613	17834	30525	10.99	4.0E-42	4508008	NT	Homo sapiens regulatory factor X, 4 (influences HLA class II expression) (RFX4) mRNA
5280	18295	31155	1	4.0E-42	AL163203.2	NT	Homo sapiens zinc finger protein 177 (ZNF177) mRNA
5280	18295	31156	1	4.0E-42	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
10850	23770	37269	0.54	4.0E-42	AW371201.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C003
11010	23975	37499	1.88	4.0E-42	AW818630.1	EST_HUMAN	GM0-BT0282-171268-127-b03 BT0282 Homo sapiens cDNA
11010	23976	37500	1.88	4.0E-42	AW818630.1	EST_HUMAN	RC1-ST0278-040400-018-h11 ST0278 Homo sapiens cDNA
11741	24626	38205	2.69	4.0E-42	BF035327.1	EST_HUMAN	RC1-ST0278-040400-018-h11 ST0278 Homo sapiens cDNA
							6014586531FT NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3962086 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1479	14512	27488	4.08	2.0E-42	BF376834.1	EST_HUMAN	RCO-TN0079-110900-024-g07 TN0079 Homo sapiens cDNA
2402	15409	28433	0.93	2.0E-42	AV690218.1	EST_HUMAN	AV690218 GK Homo sapiens cDNA clone GKOCBB08 5'
2422	15429		3.65	2.0E-42	AW888344.1	EST_HUMAN	RC3-NN0070-270400-011-H10 NN0070 Homo sapiens cDNA
2432	15439	28456	3.27	2.0E-42	AW250059.1	EST_HUMAN	2819283.3prime NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2819283 3'
5850	18940	32124	11.89	2.0E-42	AW955368.1	EST_HUMAN	EST367438 IMAGE resequencing, MAGC Homo sapiens cDNA
5850	18940	32125	11.89	2.0E-42	AW955368.1	EST_HUMAN	EST367438 IMAGE resequencing, MAGC Homo sapiens cDNA
6636	19694	32971	0.73	2.0E-42	M29145.1	NT	Human hepatocyte growth factor (HGF) mRNA, complete cds
6916	19988	33263	0.77	2.0E-42	A052586.1	EST_HUMAN	ow83d05.x1 Soares fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:1663417 3'
10201	23126	36612	1.17	2.0E-42	BE538819.1	EST_HUMAN	601061284F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3447620 5'
10415	23337	36822	0.61	2.0E-42	P81649	SWISSPROT	RIBONUCLEASE K3 (RNASE K3)
10415	23337	36823	0.61	2.0E-42	P81649	SWISSPROT	RIBONUCLEASE K3 (RNASE K3)
10974	23894	37408	0.82	2.0E-42	AW834834.1	EST_HUMAN	RCO-L T0001-150200-032-d11 T0001 Homo sapiens cDNA
12045	24919	38515	1.48	2.0E-42	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
735	13795	26734	2.47	1.0E-42	X57147.1	NT	Human endogenous retrovirus pHLE.1(ERV9)
1043	14089	27042	0.76	1.0E-42	AW295809.1	EST_HUMAN	U1-H-B1-eff-e-04-0-UJ.s1 NCJ_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2721871 3'
1103	14147	27097	1.27	1.0E-42	AJ251818.1	NT	Homo sapiens partial C9 gene for complement component C9, exon 1
1103	14147	27098	1.27	1.0E-42	AJ251818.1	NT	Homo sapiens partial C9 gene for complement component C9, exon 1
1247	15882	27248	12.68	1.0E-42	AF067166.1	NT	Homo sapiens NADH-ubiquinone oxidoreductase AGGG subunit precursor homolog mRNA, nuclear gene
1247	15882	27249	12.69	1.0E-42	AF067166.1	NT	encoding mitochondrial protein, complete cds
1711	14741	27725	2.08	1.0E-42	11423219	NT	Homo sapiens rec (LOC51201), mRNA
2046	15085	28085	1.05	1.0E-42	AF110286.1	NT	Homo sapiens PDNP1 gene, exon 17
2551	15553	28573	1.88	1.0E-42	5174458	NT	Homo sapiens major histocompatibility complex, class II, DM alpha (HLA-DMA) mRNA
2975	16033	28956	10.93	1.0E-42	4505524	NT	Homo sapiens origin recognition complex, subunit 5 (yeast homolog) like (ORC5L) mRNA, and translated products
3721	16764	29675	2.43	1.0E-42	7662027	NT	Homo sapiens KIAA0255 gene product (KIAA0255), mRNA
3948	16988	29803	1.02	1.0E-42	AL163267.2	NT	Homo sapiens chromosome 21 segment HS21C087
4274	17303	30183	1.85	1.0E-42	AL163280.2	NT	Homo sapiens chromosome 21 segment HS21C080
4624	17645	30533	0.77	1.0E-42	AW813617.1	EST_HUMAN	RC3-ST0197-161089-012-a03 ST0197 Homo sapiens cDNA
4776	17796	30888	2.44	1.0E-42	5803122	NT	Homo sapiens proteasome inhibitor (P131), mRNA
4776	17796	30889	2.44	1.0E-42	5803122	NT	Homo sapiens proteasome inhibitor (P131), mRNA
4813	17830	30728	5.31	1.0E-42	4506758	NT	Homo sapiens ryanodine receptor 3 (RYR3) mRNA
4897	18012	30899	0.79	1.0E-42	Z46120.1	EST_HUMAN	HS00FF071 normalized infant brain cDNA Homo sapiens cDNA clone c-0ff07

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Single Exon Probes Expressed In Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10446	23368	36859	4.15	9.0E-43	4757969	NT	Homo sapiens chromodomain protein, Y chromosome-like (CDYL) mRNA
653	13719	26841	14	8.0E-43	AV736824.1	EST_HUMAN	AV736824 CB Homo sapiens cDNA clone CBLAKH08 5'
653	13719	26842	14	8.0E-43	AV736824.1	EST_HUMAN	AV736824 CB Homo sapiens cDNA clone CBLAKH08 5'
701	13763	26896	4.8	8.0E-43	8923278	NT	Homo sapiens hypothetical protein FLJ20297 (FLJ20297), mRNA
701	13763	26896	4.8	8.0E-43	8923278	NT	Homo sapiens hypothetical protein FLJ20297 (FLJ20297), mRNA
701	13763	26897	4.8	8.0E-43	8923278	NT	Homo sapiens hypothetical protein FLJ20297 (FLJ20297), mRNA
5783	18875	32057	0.78	8.0E-43	H13952.1	EST_HUMAN	y08a11.1 Soares placenta Nb24P Homo sapiens cDNA clone IMAGE:148172 5'
3655	18698	29813	7.28	7.0E-43	AW246442.1	EST_HUMAN	2822251.5prime NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2822251 5'
9121	22087		3.41	7.0E-43	A1936748.1	EST_HUMAN	wp8901.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2468885 3' similar to TR:O15475
1347	14382		14.15	6.0E-43	AA491890.1	EST_HUMAN	O15475 UNNAMED HERV-H PROTEIN, contains L TR7 b1 L TR7 repetitive element ;
2588	15599		2.91	6.0E-43	AV708201.1	EST_HUMAN	ne72d06.s1 NCI_CGAP_Ew1 Homo sapiens cDNA clone IMAGE:909803 similar to gb:L05095 50S
6444	19509	32759	2.16	6.0E-43	9955973	NT	RIBOSOMAL PROTEIN L30 (HUMAN);
7093	20027	33331	1.91	6.0E-43	AW468897.1	EST_HUMAN	AV708201 ADC Homo sapiens cDNA clone ADCACC10 5'
10210	23135	36822	2.31	6.0E-43	AA195154.1	EST_HUMAN	Homo sapiens ATP-binding cassette, sub-family C (CFTR/MRP), member 3 (ABCC3), transcript variant MRP3B, mRNA
11437	24380		2.08	6.0E-43	AL119158.1	EST_HUMAN	hd30b04.x1 Soares_NFL_T_OBC_S1 Homo sapiens cDNA clone IMAGE:2910991 3' similar to contains
144	13247		1.8	5.0E-43	AL163213.2	NT	z35606.r1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:865410 5' similar to TR:G528641
503	13575	26496	3.95	5.0E-43	AA382780.1	EST_HUMAN	G528641 DB1, COMPLETE CDS, contains element PTR7 repetitive element ;
2859	15919	28840	1.63	5.0E-43	AV732578.1	EST_HUMAN	DKFZp761L1712.1 761 (synonym: hary2) Homo sapiens cDNA clone DKFZp761L1712 5'
8438	20021	33323	1.15	5.0E-43	AI613509.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C013
7087	20021	33323	0.65	5.0E-43	AI613509.1	EST_HUMAN	ESTP6033 Testis 1 Homo sapiens cDNA 5' end
8528	21496	34910	0.7	5.0E-43	AA442271.1	EST_HUMAN	AV732678 HTF Homo sapiens cDNA clone HTFANC06 5'
8528	21496	34911	0.7	5.0E-43	AA442271.1	EST_HUMAN	tw22e07.x1 NCI_CGAP_Bm52 Homo sapiens cDNA clone IMAGE:2260452 3'
9231	22197		0.89	5.0E-43	H74277.1	EST_HUMAN	tw22e07.x1 NCI_CGAP_Bm52 Homo sapiens cDNA clone IMAGE:2260452 3'
9719	22747	36198	4.22	5.0E-43	AA465288.1	EST_HUMAN	z54403.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:757420 5'
10763	23684	37180	2.36	5.0E-43	AI733244.1	EST_HUMAN	z54403.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:757420 5'
10802	23723	37225	1.45	5.0E-43	AL049110.1	EST_HUMAN	y449g12.r1 Soares fetal liver spleen 1N1LS Homo sapiens cDNA clone IMAGE:229610 5'
11115	24075	37698	4.88	5.0E-43	AV083007.1	EST_HUMAN	aa33408.r1 NCI_CGAP_G0B1 Homo sapiens cDNA clone IMAGE:815055 5'
11786	23941	37463	3.46	5.0E-43	X15804.1	NT	aa33408.r1 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1568810 3' similar to TR:P90591 P90591
							oo52c10.x5 NCI_CGAP_PV14 GENE ;
							PV14 GENE ;
							DKFZp434D0119_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434D0119
							MR2-SN0007-290400-004-c02 SN0007 Homo sapiens cDNA
							Human mRNA for alpha-actinin

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
974	15816	26979	3.95	4.0E-43	AF003528.1	NT	Homo sapiens X-linked anhidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
5331	19437	31189	1.18	4.0E-43	A056338.1	EST_HUMAN	oy47h03.x1 NCI_CGAP_Brn23 Homo sapiens cDNA clone IMAGE:1669013.3
5505	19569	32821	0.78	4.0E-43	6996009	NT	Homo sapiens glyoxyl-RNA synthetase (GARS), mRNA
7337	20308		1.94	4.0E-43	11416793	NT	Homo sapiens probocadherin beta 6 (PCDH6), mRNA
8518	21486	34900	5.73	4.0E-43	A1244341.1	EST_HUMAN	qj76a02.x1 NCI_CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1865354.3 similar to contains MER10.13
8518	21486	34901	5.73	4.0E-43	A1244341.1	EST_HUMAN	qj76a02.x1 NCI_CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1865354.3 similar to contains MER10.13
10678	23600	37095	1.39	4.0E-43	6005967	NT	Homo sapiens zinc finger protein 161 (ZNF161), mRNA
12306	25115		6.35	4.0E-43	R20950.1	EST_HUMAN	yg06b05.r1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:31363.5 similar to contains MER10 repetitive element
1218	14256		3.85	3.0E-43	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
1704	14734	27716	1.63	3.0E-43	X97869.1	NT	H. sapiens gene encoding La autoantigen
3586	18631	29549	1.32	3.0E-43	S69002.1	NT	AML1-EVI-1=AML1-EVI-1 fusion protein (rearranged translocation) [human, leukemic cell line SKH1, mRNA Mutant, 5938 nt]
4319	17348	30232	1.02	3.0E-43	AA548154.1	EST_HUMAN	nk55d06.s1 NCI_CGAP_P77 Homo sapiens cDNA clone IMAGE:1017419
5003	18017	30904	0.98	3.0E-43	AB037856.1	NT	Homo sapiens mRNA for KIAA1435 protein, partial cds
5424	18527	31405	0.51	3.0E-43	M59259.1	NT	Human carcinoembryonic antigen (CEA) gene, exon 6
5424	18527	31406	0.51	3.0E-43	M59259.1	NT	Human carcinoembryonic antigen (CEA) gene, exon 6
5996	19080	32277	0.9	3.0E-43	D34613.1	NT	Human TBXAS1 gene for thromboxane synthase, promoter region and exon 1
6492	19557	32807	1.86	3.0E-43	7305360	NT	Mus musculus obogelin (Obog), mRNA
6492	19557	32808	1.86	3.0E-43	7305360	NT	Mus musculus obogelin (Obog), mRNA
6890	19942	33238	4.38	3.0E-43	U65487.1	NT	Human ribosomal RNA upstream binding transcription factor (UBTF) gene, partial cds
8503	21471		8.69	3.0E-43	AA459824.1	EST_HUMAN	aa88f11.s1 Stragene fetal retina 937202 Homo sapiens cDNA clone IMAGE:838413.3 similar to contains THR.12 THR repetitive element
9172	22138	35564	1.82	3.0E-43	7661721	NT	Homo sapiens hypothetical protein (HSA011916), mRNA
10223	23148	36637	0.6	3.0E-43	11420217	NT	Homo sapiens similar to ornithine carbamoyltransferase (H. sapiens) (LOC63848), mRNA
185	13285		9.29	2.0E-43	A190764.1	EST_HUMAN	qd61cd09.x1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:1733968.3 similar to contains PTR7.13 PTR7 PTR7 repetitive element
6620	19678	32955	0.95	2.0E-43	BE222778.1	EST_HUMAN	hu53a08.x1 NCI_CGAP_Brn41 Homo sapiens cDNA clone IMAGE:3173750.3 similar to contains element MER40 repetitive element

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6820	19678	32956	0.95	2.0E-43	BE222778.1	EST_HUMAN	hu53a08.x1 NCI_CGAP_Brn41 Homo sapiens cDNA clone IMAGE:3173750 3' similar to contains element MER40 repetitive element;
7491	20456	33814	1.07	2.0E-43	AW207390.1	EST_HUMAN	UI-H-B11-af1-a-09-0-U1.st NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2721712 3'
8651	21619		9.34	2.0E-43	U43701.1	NT	Human ribosomal protein L23a mRNA, complete cds
11532	24473		2.96	2.0E-43	T03007.1	EST_HUMAN	FB1G5 Fetal brain, Stratagene Homo sapiens cDNA clone FB1G5 3'end similar to LINE-1
1657	14689	27664	4.13	1.0E-43	AF154836.1	NT	Homo sapiens Ras-like GTP-binding protein (RAB27A) gene, exons 1b and 2
1657	14689	27685	4.13	1.0E-43	AF154836.1	NT	Homo sapiens Ras-like GTP-binding protein (RAB27A) gene, exons 1b and 2
1717	14747	27733	2.13	1.0E-43	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
2734	15728	28742	5.67	1.0E-43	BF348283.1	EST_HUMAN	60202313F1 NCI_CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4157666 5'
5484	18584	31496	0.77	1.0E-43	4885544	NT	Homo sapiens pyruvate dehydrogenase kinase, isoenzyme 3 (PDK3) mRNA
6764	18818	33098	6.3	1.0E-43	4507168	NT	Homo sapiens Sp4 transcription factor (SP4) mRNA
6764	18818	33098	6.3	1.0E-43	4507168	NT	Homo sapiens Sp4 transcription factor (SP4) mRNA
7159	18391	31235	1.67	1.0E-43	R19751.1	EST_HUMAN	yg40e01.r1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:34732 5' similar to SP-BD38_MOUSE P28656 BRAIN PROTEIN DN38:
8284	21233	34844	0.97	1.0E-43	AF175265.1	NT	Homo sapiens vacuolar sorting protein 35 (VPS35) mRNA, complete cds
8401	21370		3.15	1.0E-43	AF198490.1	NT	Homo sapiens 8q22.1 region and MTC8 (CBFA2T1) gene, partial cds
9189	22155	35594	30.83	1.0E-43	AW963676.1	EST_HUMAN	EST375749 IMAGE resequences, MAGH Homo sapiens cDNA
10654	23676	37073	0.62	1.0E-43	AW963229.1	EST_HUMAN	EST366289 IMAGE resequences, MAGB Homo sapiens cDNA
11311	24261	37787	5.9	1.0E-43	AI984961.1	EST_HUMAN	wr87h01.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2494705 3'
11693	24658	38236	3.35	1.0E-43	11424378	NT	Homo sapiens calcium channel, voltage-dependent, alpha 1E subunit (CACNA1E), mRNA
12244	25074		2.8	1.0E-43	AL137864.1	EST_HUMAN	DKFZp761D1015_r1 761 (synonym: hamy2) Homo sapiens cDNA clone DKFZp761D1015 5'
12542	25265	31808	2.24	1.0E-43	AI975416.1	EST_HUMAN	w699b04.x1 NCI_CGAP_Pt28 Homo sapiens cDNA clone IMAGE:2313775 3'
12745	25394	31757	2.8	8.0E-44	AI222985.1	EST_HUMAN	Homo sapiens cadherin EGF LAG seven-pass G-type receptor 1 (CELSR1), mRNA
891	13946	26904	7.09	8.0E-44	AI222985.1	EST_HUMAN	qh23g01.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1845552 3'
891	13946	26905	7.09	8.0E-44	AI222985.1	EST_HUMAN	qh23g01.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1845552 3'
8884	21850	35271	2.88	8.0E-44	XG4354.1	NT	H. sapiens DNA for Cone cGMP-PDE gene
10702	23624	37120	0.47	8.0E-44	11423497	NT	Homo sapiens small proline-rich protein 2C (SPRR2C), mRNA
10702	23624	37121	0.47	8.0E-44	11423497	NT	Homo sapiens small proline-rich protein 2C (SPRR2C), mRNA
11499	24442	37993	3.93	8.0E-44	Y10488.2	NT	Homo sapiens mRNA for thymidine kinase, partial
11985	24872	38469	2.24	8.0E-44	L29139.1	NT	Homo sapiens myosin mRNA, partial cds
12485	25237	31801	2.95	8.0E-44	11527369	NT	Homo sapiens polymerase (RNA) II (DNA directed) polypeptide F (POLR2F), mRNA
12536	25577	31898	1.53	8.0E-44	11418086	NT	Homo sapiens putative nuclear protein (HRIHFB2122), mRNA
12870	25755	31516	2.68	8.0E-44	11418099	NT	Homo sapiens protein kinase C, alpha binding protein (PRKCBP), mRNA
13029	25677	31698	1.58	8.0E-44	11418088	NT	Homo sapiens putative nuclear protein (HRIHFB2122), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
660	13726		0.87	7.0E-44	R06035.1	EST_HUMAN	y89a01.r1 Soares fetal liver spleen 1NLS Homo sapiens cDNA clone IMAGE:124920 5'
2243	15257	28283	0.95	7.0E-44	5031886	NT	Homo sapiens LIM domain-containing preferred translocation partner in lipoma (LPP) mRNA
2977	16035	28957	2.68	7.0E-44	AF048729.1	NT	Homo sapiens minisatellite ms32 repeat region
2977	16035	28958	2.68	7.0E-44	AF048729.1	NT	Homo sapiens minisatellite ms32 repeat region
3876	16915	29824	2.55	7.0E-44	AL16284.2	NT	Homo sapiens chromosome 21 segment HS21C084
4270	17299	30177	1.07	7.0E-44	AF231819.1	NT	Homo sapiens chromosome 21 unknown mRNA
4270	17299	30178	1.07	7.0E-44	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
5168	18177	31055	1.04	7.0E-44	AF111168.2	NT	Homo sapiens serine palmitoyl transferase, subunit II gene, complete cds, and unknown genes
8526	21494	34908	5.87	7.0E-44	AU159839.1	EST_HUMAN	AU159839 Y79AA1 Homo sapiens cDNA clone Y79AA1000498 3'
8223	19297	32531	0.55	6.0E-44	Z20946.1	EST_HUMAN	HSAADAEYU P, Human foetal Brain Whole tissue Homo sapiens cDNA
12070	24943	38536	1.83	6.0E-44	AW954050.1	EST_HUMAN	EST366120 IMAGE resequences, MAGC Homo sapiens cDNA
303	13397		3.9	5.0E-44	AJ289880.1	NT	Homo sapiens KIAA0851 gene (partial), X13 gene and LZTFL1 gene
332	13421		2.88	5.0E-44	AJ289880.1	NT	Homo sapiens KIAA0851 gene (partial), X13 gene and LZTFL1 gene
8220	21189	34598	3.85	5.0E-44	AJ568523.1	EST_HUMAN	tn40d02.x1 NCI_CGAP_Bmi25 Homo sapiens cDNA clone IMAGE:2170083 3' similar to contains OPR.11
9739	22767		2.65	5.0E-44	AU124571.1	EST_HUMAN	ORF OFR repetitive element;
3425	16473	29392	3.2	4.0E-44	AL163303.2	NT	AU124571 NT2RM4 Homo sapiens cDNA clone NT2RM4000218 5'
5050	18062		1.02	4.0E-44	AI435225.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C103
7711	20658	34035	0.66	4.0E-44	BE883178.1	EST_HUMAN	tt1td02.x1 NCI_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2130147 3'
8614	21582	34998	0.64	4.0E-44	L21948.1	NT	601508601F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3910152 5'
9230	22196		0.49	4.0E-44	BE176618.1	EST_HUMAN	Human fibrillin (FBN1) locus polymorphism
11569	24608	38065	8.23	4.0E-44	U90878.1	NT	RC3-HT0585-010400-023-d08 HT0585 Homo sapiens cDNA
1801	14829		0.95	3.0E-44	6912477	NT	Homo sapiens carboxy terminal LIM domain protein (GLIM1) mRNA, complete cds
2537	15539	28562	0.95	3.0E-44	BE880826.1	EST_HUMAN	Homo sapiens karyopherin alpha 6 (Importin alpha 7) (KPNA6), mRNA
3114	16171	29081	6.12	3.0E-44	AA169851.1	EST_HUMAN	601491529F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3853839 5'
3905	16945	29858	1.71	3.0E-44	AA337234.1	EST_HUMAN	zp18b05.r1 Stratagene fetal retina 937202 Homo sapiens cDNA clone IMAGE:609777 5'
8074	21011	34410	0.55	3.0E-44	BE884820.1	EST_HUMAN	EST42299 Endometrial tumor Homo sapiens cDNA 5' end similar to similar to alpha-1-antitrypsinase F
9877	22830	36284	0.58	3.0E-44	AF005273.1	NT	601510547F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3912010 5'
1051	14097	27047	1.04	2.0E-44	4826685	NT	Sus scrofa domestica submaxillary apomucin mRNA, complete cds
1051	14097	27048	1.04	2.0E-44	4826685	NT	Homo sapiens DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 1 (DDX1) mRNA
1212	14250	27208	2.52	2.0E-44	5803200	NT	Homo sapiens DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 1 (DDX1) mRNA
1212	14250	27209	2.52	2.0E-44	5803200	NT	Homo sapiens transmembrane trafficking protein (TMP21), mRNA
1315	14350	27318	5.49	2.0E-44	AF133588.1	NT	Homo sapiens transmembrane trafficking protein (TMP21), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1370	14404	27374	1.05	2.0E-44	BE485325.1	EST_HUMAN	hwl4g06.x1 NCI CGAP Lu24 Homo sapiens cDNA clone IMAGE:3182938 3' similar to SW:OXYB_HUMAN
2161	15177	28198	2.57	2.0E-44	AF070661.1	NT	P22059 OXYSTEROL-BINDING PROTEIN ;
2618	16618		2.01	2.0E-44	5901933	NT	Homo sapiens tissue-type bone marrow zinc finger protein 4 mRNA, complete cds
3484	16530	29455	1.18	2.0E-44	D87875.1	NT	Homo sapiens adaptor-related protein complex 4, sigma 1 subunit (CLAPS4), mRNA
4600	17621	30514	1.6	2.0E-44	AW864379.1	EST_HUMAN	Homo sapiens DNA for anyfold precursor protein, complete cds
6214	19288	32521	1.59	2.0E-44	11448901	NT	PM4-SN0016-120500-003-e04 SN0016 Homo sapiens cDNA
7037	18369	31258	1.73	2.0E-44	AF038988.1	NT	Homo sapiens chemokine (C-C motif) receptor 8 (CCR8), mRNA
7645	20605	33970	3.8	2.0E-44	11418226	NT	Homo sapiens general transcription factor 2-1 (GTF2I) mRNA, alternatively spliced product, complete cds
7645	20605	33971	3.8	2.0E-44	11419226	NT	Homo sapiens glutamate receptor, metabotropic 3 (GRM3), mRNA
8771	21738	35158	0.72	2.0E-44	7706370	NT	Homo sapiens glutamate receptor, metabotropic 3 (GRM3), mRNA
8771	21738	35159	0.72	2.0E-44	7706370	NT	Homo sapiens vesicle transport-related protein (KIAA0917), mRNA
8988	21932	35357	1.83	2.0E-44	BE389098.1	EST_HUMAN	Homo sapiens vesicle transport-related protein (KIAA0917), mRNA
12152	25010		1.44	2.0E-44	BE244902.1	EST_HUMAN	801266814F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3613586 5'
12695	25898		1.32	2.0E-44	4826863	NT	TCBAP1E2795 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens
13047	25687		1.58	2.0E-44	11526293	NT	cDNA clone TCBAP2795
54	13174	26084	7.76	1.0E-44	7657334	NT	Homo sapiens neuronal cell adhesion molecule (NRCAM) mRNA
54	13174	26085	7.76	1.0E-44	7657334	NT	Homo sapiens cat eye syndrome chromosome region, candidate 1 (CECR1), mRNA
582	13650	26564	1.85	1.0E-44	AW853132.1	EST_HUMAN	Homo sapiens Misschappen/NIK-related kinase (MINK), mRNA
1202	14241		1.85	1.0E-44	AW894803.1	EST_HUMAN	Homo sapiens Misschappen/NIK-related kinase (MINK), mRNA
1577	14610		7.03	1.0E-44	AL183303.2	NT	RC1-CT0249-030300-028-112 CT0249 Homo sapiens cDNA
2233	15247	28270	4.49	1.0E-44	AA434554.1	EST_HUMAN	RC1-BN0039-110300-012-501 BN0039 Homo sapiens cDNA
2233	15247	28271	4.49	1.0E-44	AA434554.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C103
2290	15889	28327	0.95	1.0E-44	AA398099.1	EST_HUMAN	zw53402.1 Soares_total_fetus_Nb2HFB_9w Homo sapiens cDNA clone IMAGE:773763 5' similar to
2770	15782	28783	2.5	1.0E-44	AF106779.1	NT	contains THR13 THR repetitive element ;
3738	16780		3.01	1.0E-44	AA455869.1	EST_HUMAN	zw53402.1 Soares_total_fetus_Nb2HFB_9w Homo sapiens cDNA clone IMAGE:773763 5' similar to
5155	18165	31043	0.84	1.0E-44	AJ130755.1	NT	contains THR13 THR repetitive element ;
5155	18165	31044	0.84	1.0E-44	AJ130755.1	NT	zB8911.1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:729476 5'
							Homo sapiens transcription factor ICBM enhancer 3, JM11 protein, JM4 protein, JM5 protein, T54 protein, JM10 protein, A4 differentiation-dependent protein, triple LIM domain protein 6, and synapophysin genes, complete cds; and L-type calcium channel a2
							aa01c09.s1 Soares_NHIMPu_ST Homo sapiens cDNA clone IMAGE:811984 3'
							Homo sapiens alpha satellite DNA, M1 monomer type
							Homo sapiens alpha satellite DNA, M1 monomer type

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8608	21576	34891	1.17	1.0E-44	AW967073.1	EST_HUMAN	EST379147 MAGC resequences, MAGJ Homo sapiens cDNA
8608	21576	34992	1.17	1.0E-44	AW967073.1	EST_HUMAN	EST379147 MAGC resequences, MAGJ Homo sapiens cDNA
8608	21576	34992	1.17	1.0E-44	AW967073.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C009
8993	21959	35385	1.23	1.0E-44	AL163209.2	NT	q88g07.x1 NCI_CGAP_G08 Homo sapiens cDNA clone IMAGE:2009628 3'
9381	22346	35778	0.59	1.0E-44	AI937183.1	EST_HUMAN	AV714808 DCB Homo sapiens cDNA clone DCBBYE03 5'
11354	24304		12.74	1.0E-44	AV714808.1	EST_HUMAN	Homo sapiens SUSHI domain (SCR repeat) containing (BK65A6.2), mRNA
11858	24740	38325	3.23	1.0E-44	10092664	NT	
11917	24798	38388	2.7	1.0E-44	AW846967.1	EST_HUMAN	RC1-CT0188-150969-011-C08 CT0198 Homo sapiens cDNA
11917	24798	38389	2.7	1.0E-44	AW846967.1	EST_HUMAN	RC1-CT0198-150969-011-C08 CT0198 Homo sapiens cDNA
4809	17630	30522	1.16	9.0E-45	8922391	NT	Homo sapiens hypothetical protein FLJ10379 (FLJ10379), mRNA
4809	17630	30523	1.16	9.0E-45	8922391	NT	Homo sapiens hypothetical protein FLJ10379 (FLJ10379), mRNA
6806	19660	33147	1.52	9.0E-45	AB023212.1	NT	Homo sapiens mRNA for KIAA0995 protein, partial cds
2529	15632	28553	1.57	8.0E-45	5174718	NT	Homo sapiens TRK-fused gene (NOTE: non-standard symbol and name) (TFG) mRNA
5119	18129	31005	8.66	8.0E-45	5174718	NT	Homo sapiens TRK-fused gene (NOTE: non-standard symbol and name) (TFG) mRNA
8444	21413	34827	0.85	8.0E-45	AA377985.1	EST_HUMAN	EST190993 Synovial sarcoma Homo sapiens cDNA 5' end
2969	16027		0.96	7.0E-45	AL160131.1	NT	Novel human gene mapping to chromosome 22
1558	14588		1	6.0E-45	AI675425.1	EST_HUMAN	wb96c06.x1 NCI_CGAP_P128 Homo sapiens cDNA clone IMAGE:2313802 3' similar to contains L1.1 L1 repetitive element;
4003	17042		3.48	6.0E-45	AW157570.1	EST_HUMAN	au83107.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2782809 3' similar to SW:R13A_HUMAN P40429 60S RIBOSOMAL PROTEIN L13A ;
12836	25948		1.53	6.0E-45	11418213	NT	Homo sapiens ADP-ribosylation factor GTPase activating protein 1 (ARFGAP1), mRNA
893	13948		1.56	5.0E-45	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
2018	15039	28050	4.99	5.0E-45	BF333627.1	EST_HUMAN	CM4-CN0044-180200-515-01 CN0044 Homo sapiens cDNA
3223	16278	29203	1.49	5.0E-45	AI523766.1	EST_HUMAN	tg94f07.x1 NCI_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:2116453 3' similar to SW:PAX1_MOUSE P09084 PAIRED BOX PROTEIN PAX-1 ;
5590	18686	31654	8.41	5.0E-45	AA397781.1	EST_HUMAN	ZF72003.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:727877 3' similar to contains element TART repetitive element;
6135	19212	32439	1.48	5.0E-45	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
6135	19212	32440	1.48	5.0E-45	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
6183	19258	32491	0.84	5.0E-45	AB022318.1	NT	Homo sapiens mRNA for inducible nitric oxide synthase, complete cds
6183	19258	32492	0.84	5.0E-45	AB022318.1	NT	Homo sapiens mRNA for inducible nitric oxide synthase, complete cds
6313	19384	32625	1.07	5.0E-45		NT	Homo sapiens zinc finger protein 277 (ZNF277), mRNA
6313	19384	32626	1.07	5.0E-45		NT	Homo sapiens zinc finger protein 277 (ZNF277), mRNA
8619	21587	35003	0.66	5.0E-45	11418704	NT	Homo sapiens bone morphogenetic protein 5 (BMP5), mRNA
9396	22361	35792	1.29	5.0E-45	4759223	NT	Homo sapiens programmed cell death 5 (PDCD5), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12003	24880	38476	2.3	5.0E-45	8923698	NT	Homo sapiens golgin-like protein (GLP), mRNA
1146	14188	27139	10.78	4.0E-45	X95828.1	NT	H. sapiens ART4 gene
2288	15311	28331	1.91	4.0E-45	BE265622.1	EST_HUMAN	601194440F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3538425 5'
4535	17558	30446	0.72	4.0E-45	4759249	NT	Homo sapiens TRAF family member-associated NFKB activator (TANK) mRNA
9308	22273		0.89	4.0E-45	AA228220.1	EST_HUMAN	nc28607.s1 NCL CGAP_P11 Homo sapiens cDNA clone IMAGE:1009284 similar to contains element L1 repetitive element:
12167	25894	31418	1.4	4.0E-45	11435947	NT	Homo sapiens chromosome 12 open reading frame 3 (C12ORF3), mRNA
4115	16393		0.99	3.0E-45	T71480.1	EST_HUMAN	x435f07.r1 Soares fetal liver spleen 1NF1LS Homo sapiens cDNA clone IMAGE:110245 5'
6364	19433	32676	1.13	3.0E-45	6753651	NT	Mus musculus dynein, axon, heavy chain 11 (Dnahc11), mRNA
6364	19433	32677	1.13	3.0E-45	6753651	NT	Mus musculus dynein, axon, heavy chain 11 (Dnahc11), mRNA
8794	21761		1.53	3.0E-45	AV723976.1	EST_HUMAN	AV723976 HTB Homo sapiens cDNA clone HTBAAAG01 5'
9143	22109	35535	3.82	3.0E-45	4758451	NT	Homo sapiens golgi autoantigen, golgin subfamily e, 2 (GOLGA2) mRNA
10670	23592	37087	10.98	3.0E-45	AL163227.2	NT	Homo sapiens chromosome 21 segment HS21C027
10670	23592	37088	10.98	3.0E-45	AL163227.2	NT	Homo sapiens chromosome 21 segment HS21C027
12954	25888		4.13	3.0E-45	X88211.1	NT	H. sapiens DNA for endogenous retroviral like element
2511	15514		1.86	2.0E-45	AL163218.2	NT	Homo sapiens chromosome 21 segment HS21C018
3045	16102	28016	1.6	2.0E-45	AJ243213.1	NT	Homo sapiens partial 5-HT4 receptor gene, exons 2 to 5
6671	19728	33004	5.17	2.0E-45	L01665.1	NT	Human eosinophil Charcot-Leyden crystal (CLC) protein (lysophospholipase) gene, promoter and exon 1
7868	20812	34189	1.25	2.0E-45	BE782184.1	EST_HUMAN	601467793F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3870838 5'
8758	21725	35148	1.08	2.0E-45	AW834834.1	EST_HUMAN	RCO-LT0001-150200-032-d11 LT0001 Homo sapiens cDNA
11154	25704	37639	25.96	2.0E-45	BE834350.1	EST_HUMAN	MRO-HT0923-190800-201-a02 HT0923 Homo sapiens cDNA
11511	24452	38002	3.5	2.0E-45	AA488770.1	EST_HUMAN	aa87f12.1 Stralagene fetal retina 837202 Homo sapiens cDNA clone IMAGE:838319 5' similar to TR:G1144569 G1144569 R-SLY1..
11832	24715	38289	1.67	2.0E-45	AW270280.1	EST_HUMAN	xp72a03.x1 NCL CGAP_Ov40 Homo sapiens cDNA clone IMAGE:2745868 3'
11832	24715	38300	1.67	2.0E-45	AW270280.1	EST_HUMAN	xp72a03.x1 NCL CGAP_Ov40 Homo sapiens cDNA clone IMAGE:2745868 3'
12958	25565		3.46	2.0E-45	11418157	NT	Homo sapiens calcium channel, voltage-dependent, alpha 1I subunit (CACNA1I), mRNA
124	13482		1.84	1.0E-45	BE389855.1	EST_HUMAN	601284360F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3606183 5'
409	13492		2.09	1.0E-45	BE389855.1	EST_HUMAN	601284360F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3606183 5'
473	13545	28474	1.93	1.0E-45	4508412	NT	Homo sapiens RAP1A, member of RAS oncogene family (RAP1A), mRNA
1178	14219	27175	1.94	1.0E-45	7657290	NT	Homo sapiens Langerhans cell specific c-type lectin (LANGERIN), mRNA
3120	16177	29088	7.12	1.0E-45	U32169.1	NT	Human pro-alpha2 chain of collagen type XI (COL11A2) gene, complete cds
3503	16550	29477	0.84	1.0E-45	8659558	NT	Homo sapiens chromosome 21 open reading frame 1 (C21orf4), mRNA
4503	17528	30413	4.06	1.0E-45	BE396633.1	EST_HUMAN	601286116F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3619803 5'

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4757	17777		1.01	1.0E-45	H57443.1	EST_HUMAN	y05b02.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:204363 5'
8365	21334	34745	0.57	1.0E-45	11422236	NT	Homo sapiens peroxisomal biogenesis factor 14 (PEX14), mRNA
8365	21334	34746	0.57	1.0E-45	11422236	NT	Homo sapiens peroxisomal biogenesis factor 14 (PEX14), mRNA
8954	21820	35346	0.85	1.0E-45	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
9478	22440	35880	4.82	1.0E-45	BE887843.1	EST_HUMAN	601511226F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3912535 5'
9880	22833	36287	1.03	1.0E-45	AB002297.1	NT	Human mRNA for KIAA0289 gene, partial cds
12369	25155	31856	9.31	1.0E-45	11418099	NT	Homo sapiens protein kinase C, alpha binding protein (PRKCABP), mRNA
12551	25274		9.31	1.0E-45	11526291	NT	Homo sapiens hypothetical protein FLJ20454 (FLJ20454), mRNA
12556	25277		6.48	1.0E-45	11418177	NT	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
12962	25532	31715	3.98	1.0E-45	11418157	NT	Homo sapiens calcium channel, voltage-dependent, alpha 1I subunit (CACNA1I), mRNA
8570	21538	34959	1.68	9.0E-46	9910293	NT	Mus musculus keratin complex 2, gene 6g (Krt2-6g), mRNA
8981	21947		7.02	9.0E-46	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
10845	23765	37264	9.09	9.0E-46	AW246904.1	EST_HUMAN	2822449.5prime NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2822449 5'
2448	15453	28474	11.23	8.0E-46	AI433261.1	EST_HUMAN	132208.x1 NCI CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2132199 3' similar to gb.J00314_rna2
2448	15453	28475	11.23	8.0E-46	AI433261.1	EST_HUMAN	TUBULIN BETA-1 CHAIN (HUMAN);
8389	21358		6.79	8.0E-46	BE167244.1	EST_HUMAN	TUBULIN BETA-1 CHAIN (HUMAN);
2248	15262	28289	1.17	7.0E-46	U46007.1	NT	RC5-HT0506-280200-012-C12 HT0506 Homo sapiens cDNA
4611	17832		3.58	7.0E-46	BE386165.1	EST_HUMAN	Rattus norvegicus espin mRNA, complete cds
4845	17862		1.14	7.0E-46	BE064388.1	EST_HUMAN	601277292F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3618119 5'
6160	19235	32466	3.92	7.0E-46	8922708	NT	RC4-BT0310-110300-015-f10 BT0310 Homo sapiens cDNA
6642	19700	32976	1.95	7.0E-46	BF105845.1	EST_HUMAN	Homo sapiens hypothetical protein FLJ10847 (FLJ10847), mRNA
2765	15757	28778	5.63	6.0E-46	A1884381.1	EST_HUMAN	601822835F1 NIH_MGC_77 Homo sapiens cDNA clone IMAGE:4042736 5'
2765	15757	28779	5.63	6.0E-46	A1884381.1	EST_HUMAN	wm31105.x1 NCI CGAP_U14 Homo sapiens cDNA clone IMAGE:2437575 3' similar to contains MER19.12
6252	19325	32556	10.15	6.0E-46	A1635448.1	EST_HUMAN	MER19 repetitive element;
7426	20393	33743	0.76	6.0E-46	AW513244.1	EST_HUMAN	wm31105.x1 NCI CGAP_U14 Homo sapiens cDNA clone IMAGE:2437575 3' similar to contains MER19.12
7609	20570	33933	0.51	6.0E-46	BF509740.1	EST_HUMAN	MER19 repetitive element;
205	13306		6.47	5.0E-46	AL163210.2	NT	ts58h10.x1 NCI CGAP_Kid8 Homo sapiens cDNA clone IMAGE:2232835 3' similar to TR:O60363 O60363
3539	16585	29508	1.01	5.0E-46	BE677194.1	EST_HUMAN	SA GENE;
							x042e04.x1 NCI CGAP_U11 Homo sapiens cDNA clone IMAGE:2706654 3' similar to gb.L08069 DNAJ
							PROTEIN HOMOLOG 2 (HUMAN);
							UIH-B14-apg-b-06-0-UI.e1 NCI CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3087298 3'
							Homo sapiens chromosome 21 segment HS21C010
							7d81g01.x1 Lupski_dorsal_root_ganglion Homo sapiens cDNA clone IMAGE:3279408 3'

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3539	16585	29509	1.01	5.0E-46	BE677194.1	EST_HUMAN	7d81g01.x1 Lupski_dorsal_root_ganglion Homo sapiens cDNA clone IMAGE:3279408 3'
8899	19951	33248	1.64	5.0E-46	BF590442.1	EST_HUMAN	naa38f07.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3258757 3' similar to TR:O75202
7128	20104	33415	3.97	5.0E-46	BF347229.1	EST_HUMAN	O75202 HOMOLOG OF RAT KIDNEY-SPECIFIC ;
7302	20273	33609	0.67	5.0E-46	AW582253.1	EST_HUMAN	602021164F1 NCI_CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4156670 5'
7614	20574	33938	0.56	5.0E-46	BE549744.1	EST_HUMAN	QV4-ST0212-120100-075-09 S10212 Homo sapiens cDNA
							7b38b05.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3230481 3'
							nc54e09.s1 NCI_CGAP_SS1 Homo sapiens cDNA clone IMAGE:1104520 3' similar to gb:X53741_rna1
642	13708		2.88	4.0E-46	AA601143.1	EST_HUMAN	FIBULIN-1, ISOFORM A PRECURSOR (HUMAN);
							h186c03.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3008836 3' similar to gb:X14008_rna1
1715	14745	27729	7.91	4.0E-46	AW770544.1	EST_HUMAN	LYSOZYME C PRECURSOR (HUMAN); contains element MER37 repetitive element ;
							h186c03.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3008836 3' similar to gb:X14008_rna1
1715	14745	27730	7.91	4.0E-46	AW770544.1	EST_HUMAN	LYSOZYME C PRECURSOR (HUMAN); contains element MER37 repetitive element ;
2749	15742	28759	3.26	4.0E-46	M18048.1	NT	Human endogenous retrovirus RTVL-H2
4447	17473	30361	0.95	4.0E-46	AB014522.1	NT	Homo sapiens mRNA for KIAA0622 protein, partial cds
4447	17473	30362	0.95	4.0E-46	AB014522.1	NT	Homo sapiens mRNA for KIAA0622 protein, partial cds
5194	18203	31076	0.78	4.0E-46	BE044260.1	EST_HUMAN	ho42a07.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:3040020 3'
5194	18203	31077	0.78	4.0E-46	BE044260.1	EST_HUMAN	ho42a07.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:3040020 3'
5511	18611	31542	2.11	4.0E-46	M36852.1	NT	Human Ig germline gamma-3 heavy-chain gene V region, partial cds
5511	18611	31543	2.11	4.0E-46	M36852.1	NT	Human Ig germline gamma-3 heavy-chain gene V region, partial cds
12782	25422	31737	2.51	4.0E-46	AB002059.1	NT	Homo sapiens DNA for Human P2XM, complete cds
4421	17448	30339	1.21	3.0E-46	4506376	NT	Homo sapiens mitogen-activated protein kinase kinase kinase 3 (MAP4K3), mRNA
4809	17826	30722	2.84	3.0E-46	Z73660.1	NT	H. sapiens Ig lambda light chain variable region gene (7c.11.2) germline; Ig-Light-Lambda; VLambda
4809	17826	30723	2.84	3.0E-46	Z73660.1	NT	H. sapiens Ig lambda light chain variable region gene (7c.11.2) germline; Ig-Light-Lambda; VLambda
9102	22068	35494	10	3.0E-46	AI831462.1	EST_HUMAN	wj49c04.x1 NCI_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2406150 3' similar to contains THR.b2
9358	22323	35750	0.59	3.0E-46	L08850.1	NT	THR repetitive element ;
9358	22323	35751	0.59	3.0E-46	L08850.1	NT	Human AD amyloid mRNA, complete cds
11898	24779	38365	2.01	3.0E-46	D31765.1	NT	Human AD amyloid mRNA, complete cds
							Human mRNA for KIAA0061 gene, partial cds
838	13895	28650	10.84	2.0E-46	AA468646.1	EST_HUMAN	ne06a09.s1 NCI_CGAP_Co3 Homo sapiens cDNA clone IMAGE:880408 3' similar to contains THR.b2 THR repetitive element ;

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1564	14597		2.13	2.0E-46	AA678246.1	EST_HUMAN	2127a11.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:431996 3'
1647	14679	27652	4.43	2.0E-46	U78027.1	NT	Homo sapiens Bruton's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein (L44L) and FTP3 (FTP3) genes, complete cds
5010	18024	30910	1.06	2.0E-46	AA399286.1	EST_HUMAN	z159e02.11 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:726650 5' similar to SW:RSP1_MOUSE Q01730 RSP-1 PROTEIN.
7726	20682	34046	7.69	2.0E-46	9910869	NT	Mus musculus sperm tail associated protein (Stap), mRNA
8404	21373		1.18	2.0E-46	BE669151.1	EST_HUMAN	601445137F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3849297 5'
11576	24514		1.82	2.0E-46	7657233	NT	Homo sapiens small acidic protein (IMAGE145052), mRNA
12857	25741	31619	3.22	2.0E-46	AW277214.1	EST_HUMAN	Xq78h03.x1 NCI_CGAP_Lu34 Homo sapiens cDNA clone IMAGE:2756789 3'
1237	14273	27233	6.68	1.0E-46	4502694	NT	Homo sapiens cell division cycle 10 (homologous to CDC10 of S. cerevisiae) (CDC10) mRNA
2289	15302	28328	3.26	1.0E-46	AW978516.1	EST_HUMAN	EST390625 MAGe resequences, MAGP Homo sapiens cDNA
2409	15416	28440	2.9	1.0E-46	H97330.1	EST_HUMAN	EST48b095 WATM1 Homo sapiens cDNA clone 48b095
3262	16316	29236	1.32	1.0E-46	AA631912.1	EST_HUMAN	np78b002.s1 NCI_CGAP_P12 Homo sapiens cDNA clone IMAGE:1132395 similar to gb:X76717 H.sapiens MT-11 mRNA. (HUMAN);
4908	17925		2.93	1.0E-46	AB023197.1	NT	Homo sapiens mRNA for KIAA0980 protein, partial cds
5784	18876	32058	7.06	1.0E-46	BF194707.1	EST_HUMAN	7o92b01.x1 NCI_CGAP_Ov18 Homo sapiens cDNA clone IMAGE:3943705 3'
6089	25653	32382	5.57	1.0E-46	8923762	NT	Homo sapiens centaurin-alpha 2 protein (HSA272195), mRNA
6089	25653	32383	5.57	1.0E-46	8923762	NT	Homo sapiens centaurin-alpha 2 protein (HSA272195), mRNA
6766	19820	33102	0.65	1.0E-46	BF196247.1	EST_HUMAN	7n48c07.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3567852 3' similar to contains element MER22 repetitive element;
11211	18876	32058	3.61	1.0E-46	BF194707.1	EST_HUMAN	7o92b01.x1 NCI_CGAP_Ov18 Homo sapiens cDNA clone IMAGE:3943705 3'
12322	25124	31845	1.52	1.0E-46	BF531102.1	EST_HUMAN	602072264F1 NCI_CGAP_Bm87 Homo sapiens cDNA clone IMAGE:4215398 5'
12322	25124	31846	1.52	1.0E-46	BF531102.1	EST_HUMAN	602072264F1 NCI_CGAP_Bm87 Homo sapiens cDNA clone IMAGE:4215398 5'
13066	25600		4.54	1.0E-46	AV715377.1	EST_HUMAN	AV715377 DCB Homo sapiens cDNA clone DCBAIE03 5'
767	13826		3.24	9.0E-47	AJ271735.1	NT	Homo sapiens Xq pseudautosomal region; segment 1/2
4968	17983	30873	3.91	9.0E-47	AW770928.1	EST_HUMAN	h93e04.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3009534 3' similar to TR:O75703 O75703 HYPOTHETICAL 12.4 KD PROTEIN.
6513	19577	32832	1.56	9.0E-47	11425439	NT	Homo sapiens zinc finger protein ZNF286 (ZNF286), mRNA
12816	25843	31432	2.25	9.0E-47	11417968	NT	Homo sapiens SEC14 (S. cerevisiae)-like 2 (SEC14L2), mRNA
1825	14852	27846	47.72	8.0E-47	Y18536.1	NT	Homo sapiens HLA-C gene, exon 5, individual 19323
1825	14852	27847	47.72	8.0E-47	Y18536.1	NT	Homo sapiens HLA-C gene, exon 5, individual 19323
2728	15722	28739	1.77	8.0E-47	5453955	NT	Homo sapiens protein phosphatase 2, regulatory subunit B (B56), epsilon isoform (PPP2R9E) mRNA
3036	16094	28012	2.12	8.0E-47	AJ229043.1	NT	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22, segment 3/3

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3640	16683	29598	0.78	8.0E-47	AB041926.1	NT	Homo sapiens mRNA for GSK family kinase MINK-2, complete cds
3640	16683	29599	0.78	8.0E-47	AB041926.1	NT	Homo sapiens mRNA for GSK family kinase MINK-2, complete cds
5254	18282	31131	0.65	8.0E-47	7682421	NT	Homo sapiens KIAA0971 protein (KIAA0971), mRNA
2555	15557	28575	2.2	6.0E-47	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
9040	22006	35427	0.49	6.0E-47	U77054.1	EST_HUMAN	HSU77054 Human Homo sapiens cDNA clone N7
9831	22575	36025	6.5	6.0E-47	A1695189.1	EST_HUMAN	U88h02.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2266659 3'
10070	22897	36465	0.86	6.0E-47	AB042824.1	NT	Homo sapiens RECQL5 beta mRNA for DNA helicase recQ5 beta, complete cds
10070	22897	36466	0.88	6.0E-47	AB042824.1	NT	Homo sapiens RECQL5 beta mRNA for DNA helicase recQ5 beta, complete cds
6729	19785	33064	6.56	5.0E-47	11423972	NT	Homo sapiens CDC37 (cell division cycle 37, S. cerevisiae, homolog) (CDC37), mRNA
11147	24107	27403	4.8	5.0E-47	M78590.1	EST_HUMAN	EST00738 Fetal brain, Stratagene (cat#838208) Homo sapiens cDNA clone HFBCF07
1400	14433	27403	4.48	4.0E-47	4557556	NT	Homo sapiens E1A binding protein p300 (EP300) mRNA
7006	20132	33447	0.98	4.0E-47	BE938896.1	EST_HUMAN	MR4-TN0108-280800-201-d04 TN0108 Homo sapiens cDNA
8825	21792	35214	2.45	4.0E-47	BE016483.1	EST_HUMAN	601280486F1 NIH_MGC_38 Homo sapiens cDNA clone IMAGE:3622437 5'
8825	21792	35215	2.45	4.0E-47	BE016483.1	EST_HUMAN	601280486F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3622437 5'
8965	21931	35358	0.81	4.0E-47	AW993777.1	EST_HUMAN	RC3-BN0034-220300-075-105 BN0034 Homo sapiens cDNA
11954	24833		5.51	4.0E-47	AW515509.1	EST_HUMAN	x66607.x1 NCI_CGAP_Lym12 Homo sapiens cDNA clone IMAGE:2848697 3' similar to SW:INT6_MOUSE
548	13617	26538	1.73	3.0E-47	BE907634.1	EST_HUMAN	Q64252 VIRAL INTEGRATION SITE PROTEIN INT-6, [1]:
548	13617	26539	1.73	3.0E-47	BE907634.1	EST_HUMAN	601497639F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3899721 5'
819	13677	26826	6.7	3.0E-47	N57483.1	EST_HUMAN	601497639F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3899721 5'
944	13997	26949	7.86	3.0E-47	AL163284.2	NT	yy54b04.s1 Soares_multiple_sclerosis_2NBHMSF Homo sapiens cDNA clone IMAGE:277327 3'
3315	16368	29288	0.7	3.0E-47	4504116	NT	Homo sapiens chromosome 21 segment HS21C084
3890	17030		6.21	3.0E-47	U93181.1	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
4389	17417	30301	0.98	3.0E-47	M12959.1	NT	Homo sapiens nuclear dual-specificity phosphatase (SBF1) mRNA, partial cds
6128	19206	32429	4.76	3.0E-47	AW408900.1	EST_HUMAN	Human T-cell receptor active alpha-chain mRNA from JM cell line, complete cds
6128	19206	32430	4.76	3.0E-47	AW408900.1	EST_HUMAN	UI-HF-BM0-adv-d-07-Q-U1.r1 NIH_MGC_38 Homo sapiens cDNA clone IMAGE:3063205 5'
6716	19772		1.72	3.0E-47	A122413.1	EST_HUMAN	UI-HF-BM0-adv-d-07-Q-U1.r1 NIH_MGC_38 Homo sapiens cDNA clone IMAGE:3063205 5'
7608	20569	33931	0.59	3.0E-47	A1819755.1	EST_HUMAN	q104e07.x1 Soares_NFL_I_GBC_S1 Homo sapiens cDNA clone IMAGE:1843716 3'
7608	20569	33932	0.59	3.0E-47	A1819755.1	EST_HUMAN	wj11h08.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2402569 3'
9185	22151	35579	0.59	3.0E-47	AW963796.1	EST_HUMAN	wj11h08.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2402569 3'
9185	22151	35580	0.59	3.0E-47	AW963796.1	EST_HUMAN	EST375869 MAGe resequences, MAGH Homo sapiens cDNA
149	13252	26181	1.57	2.0E-47	4505318	NT	EST375869 MAGe resequences, MAGH Homo sapiens cDNA
969	14021	26973	2.24	2.0E-47	AL163209.2	NT	Homo sapiens myosin phosphatase, target subunit 2 (MYPT2), mRNA
969	14021	26974	2.24	2.0E-47	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009

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Table 4
Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1570	14803		1.08	2.0E-47	A1969279.1	EST_HUMAN	wq95b02.x1 NCI_CGAP_G08 Homo sapiens cDNA clone IMAGE:2479851 3'
1597	14829	27604	2.2	2.0E-47	7662109	NT	Homo sapiens KIAA0428 gene product (KIAA0428), mRNA
1687	14718	27698	3.87	2.0E-47	AA524514.1	EST_HUMAN	ng43h12.s1 NCI_CGAP_C03 Homo sapiens cDNA clone IMAGE:937607 3'
4374	17402	30282	1.82	2.0E-47	4504866	NT	Homo sapiens ring finger protein (C3HC4 type) 8 (RNF8), mRNA
4411	17439	30327	1.48	2.0E-47	AA569592.1	EST_HUMAN	mf23g07.s1 NCI_CGAP_P11 Homo sapiens cDNA clone IMAGE:914652
4411	17439	30328	1.48	2.0E-47	AA569592.1	EST_HUMAN	mf23g07.s1 NCI_CGAP_P11 Homo sapiens cDNA clone IMAGE:914652
4534	17557	30445	1.68	2.0E-47	5174648	NT	Homo sapiens Rev/Rex activation domain binding protein-related (RAB-R) mRNA
4850	17667	30760	1.22	2.0E-47	AW965166.1	EST_HUMAN	EST1377239 IMAGE resequences, MAGI Homo sapiens cDNA
5187	18196		0.7	2.0E-47	A1041126.1	EST_HUMAN	ov61h03.x1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:1641845 3'
5880	18969	32160	1.22	2.0E-47	AF073921.1	NT	Homo sapiens regulator of G-protein signaling 6 variant form (RGS6), complete cds
6088	19168	32380	1.29	2.0E-47	BE778475.1	EST_HUMAN	601463932F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3887487 5'
6088	19168	32381	1.29	2.0E-47	BE778475.1	EST_HUMAN	601463932F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3887487 5'
7964	25692		1.43	2.0E-47	L09731.1	NT	Homo sapiens 5-hydroxytryptamine 1D receptor pseudogene with an Alu repeat insertion
8297	21268	34677	1.76	2.0E-47	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
8297	21268	34678	1.76	2.0E-47	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
9068	22034	35457	1.75	2.0E-47	AF071771.1	NT	Homo sapiens SPH-binding factor mRNA, partial cds
9845	22781	36235	0.76	2.0E-47	11526138	NT	Homo sapiens BTG family, member 3 (BTG3), mRNA
11800	23955	37478	2.31	2.0E-47	M76125.1	NT	Human tyrosine kinase receptor (ex1) mRNA, complete cds
12358	25886	31415	2.12	2.0E-47	R42423.1	EST_HUMAN	yf92e08.s1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:29866 3' similar to contains OFR repetitive element:
1404	14437	27405	6.91	1.0E-47	A1333429.1	EST_HUMAN	qp99h03.x1 Soares fetal_lung_NBHL19W Homo sapiens cDNA clone IMAGE:1931189 3'
3835	16875	29776	1.18	1.0E-47	BE280477.1	EST_HUMAN	601155321F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3138893 5'
3835	16875	29777	1.18	1.0E-47	BE280477.1	EST_HUMAN	601155321F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3138893 5'
5112	18122	30997	2.55	1.0E-47	AW813906.1	EST_HUMAN	RC3-ST0197-130400-017-h02 ST0197 Homo sapiens cDNA
7244	18679	33276	6.6	1.0E-47	A1890886.1	EST_HUMAN	at19e06.x1 Barslead aorta HPLRB6 Homo sapiens cDNA clone IMAGE:2355586 3' similar to gb:M22995 RAS-RELATED PROTEIN RAP-1A (HUMAN);
9220	22186		0.77	1.0E-47	AW664648.1	EST_HUMAN	h84a11.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2978972 3' similar to gb:M26326 KERATIN, TYPE I CYTOSKELETAL 18 (HUMAN);
10721	23643	37136	2.41	1.0E-47	L30115.1	NT	Papio hamadryas alcohol dehydrogenase class I (ADH) gene, 5' region
1616	14648	27623	3.85	9.0E-48	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
3569	16814	29536	0.7	9.0E-48	BF359947.1	EST_HUMAN	CM2-MT0100-310700-290-f05 MT0100 Homo sapiens cDNA
5763	18855	32035	0.84	9.0E-48	BE888196.1	EST_HUMAN	601511714F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3913106 5'
5763	18855	32036	0.84	9.0E-48	BE888196.1	EST_HUMAN	601511714F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3913106 5'

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6220	19294	32528	0.6	9.0E-48	A1833168.1	EST_HUMAN	at15h09.x1 Barstead colon HPLRB7 Homo sapiens cDNA clone IMAGE:2377889 3' similar to TR:O60844
6351	19420	32661	0.73	9.0E-48	AU123240.1	EST_HUMAN	O60844 HOMOLOG OF RAT ZYMOGEN GRANULE MEMBRANE PROTEIN. ;
11452	24395	37940	2.49	9.0E-48	BE393813.1	EST_HUMAN	AU123240 NT2RM1 Homo sapiens cDNA clone NT2RM1000978 5'
1255	14291		1.5	8.0E-48	4501900	NT	601310479F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3632083 5'
1256	14291		1.54	8.0E-48	4501900	NT	Homo sapiens aminocyclase 1 (ACY1), mRNA
3152	16209	29123	3.31	8.0E-48	AW768477.1	EST_HUMAN	Homo sapiens aminocyclase 1 (ACY1), mRNA
3152	16209	29124	3.31	8.0E-48	AW768477.1	EST_HUMAN	hK61b03.x1 NCL CGAP_Lym12 Homo sapiens cDNA clone IMAGE:3001133 3' similar to gb:X64707
481	13564		1.54	7.0E-48	AB033035.1	NT	BREAST BASIC CONSERVED PROTEIN 1 (HUMAN);
492	13564		22.81	7.0E-48	AB033035.1	NT	BREAST BASIC CONSERVED PROTEIN 1 (HUMAN);
1496	14529	27501	1.04	7.0E-48	6912719	NT	Homo sapiens mRNA for KIAA1209 protein, partial cds
1643	14675	27648	4.5	7.0E-48	5730038	NT	Homo sapiens tousel-like kinase 1 (TLK1), mRNA
6707	19763	33042	24.74	7.0E-48	11416831	EST_HUMAN	Homo sapiens SET domain and mariner transposase fusion gene (SETMAR) mRNA
3612	16657	29575	1.2	6.0E-48	AI761111.1	EST_HUMAN	Homo sapiens histidyl-lysin synthetase (HARS), mRNA
6176	19251	32484	1.12	6.0E-48	AB006955.1	NT	w169h03.x1 NCL CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2398613 3'
6953	20177	33502	0.89	6.0E-48	11420995	NT	Homo sapiens mRNA for AIE-75, complete cds
7702	25687	34022	0.56	6.0E-48	AB046844.1	NT	Homo sapiens BMX non-receptor tyrosine kinase (BMX), mRNA
7702	25687	34023	0.56	6.0E-48	AB046844.1	NT	Homo sapiens mRNA for KIAA1624 protein, partial cds
9479	22443	35885	1.94	6.0E-48	AF026816.1	NT	Homo sapiens putative oncogene protein mRNA, partial cds
9899	22852	36311	1.78	6.0E-48	11427428	NT	Homo sapiens hypothetical protein FLJ11006 (FLJ11006), mRNA
10047	22974	36441	3.3	6.0E-48	AA189080.1	EST_HUMAN	zq45b06.s1 Stratagene hNT neuron (#937233) Homo sapiens cDNA clone IMAGE:632627 3' similar to contains Alu repetitive element
3320	18313	29292	1.58	5.0E-48	4826891	NT	Homo sapiens phosphodiesterase 1A, calmodulin-dependent (PDE1A) mRNA
8921	21887	35314	1.11	5.0E-48	BE064410.1	EST_HUMAN	RC4-BT0311-141189-011-h06 BT0311 Homo sapiens cDNA
11305	24255	37782	2.83	4.0E-48	AI620420.1	EST_HUMAN	tu47a02.x1 NCL CGAP_P28 Homo sapiens cDNA clone IMAGE:2254154 3'
1385	14419	27388	1.33	3.0E-48	AV690964.1	EST_HUMAN	AV690964 GKC Homo sapiens cDNA clone GKCDRE12.5'
1993	15014	28020	16.21	3.0E-48	4885170	NT	Homo sapiens chromosome X open reading frame 6 (CXORF6) mRNA
1993	15014	28021	16.21	3.0E-48	4885170	NT	Homo sapiens chromosome X open reading frame 6 (CXORF6) mRNA
3429	16477	29396	0.93	3.0E-48	AF172453.1	NT	Homo sapiens opid growth factor receptor mRNA, complete cds
3647	16690	29606	0.75	3.0E-48	AW664531.1	EST_HUMAN	h114b12.x1 NCL CGAP_GUT1 Homo sapiens cDNA clone IMAGE:2972265 3' similar to SW:DCRB_HUMAN
4275	17304		0.9	3.0E-48	AA009541.1	EST_HUMAN	P58555 DOWN SYNDROME CRITICAL REGION PROTEIN B. ;
							z104g03.r1 Soerea_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:428844 5'

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Table 4
Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5997	19081	32278	2.41	3.0E-48	BE084571.1	EST_HUMAN	MIR4-BT0657-060400-201-e10 BT0657 Homo sapiens cDNA
7215	20237	33571	1.06	3.0E-48	AF087913.1	NT	Human endogenous retrovirus HERV-P-T47D
8734	21702		4.11	3.0E-48	AA659930.1	EST_HUMAN	PTR5 repetitive element;
11221	24174	37700	6.89	3.0E-48	BF514170.1	EST_HUMAN	UHLBW1-ant-e-10-O-JJ.s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3082267 3'
5	13126	26025	2.4	2.0E-48	AA465007.1	EST_HUMAN	zx80c03.r1 Soares ovary tumor NBHOT Homo sapiens cDNA clone IMAGE:810052 5'
47	13167	26072	1.23	2.0E-48	AA631940.1	EST_HUMAN	fmi67 Regional genomic DNA specific cDNA library Homo sapiens cDNA clone CR17-26
1223	14261		0.65	2.0E-48	H24278.1	EST_HUMAN	ym55e10.r1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:52182 5' similar to SP-M68_MOUSE P35803 MEMBRANE GLYCOPROTEIN ;
4562	17585	30477	0.92	2.0E-48	BE246065.1	EST_HUMAN	TCBAP1D3842 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens cDNA clone TCBAP3842
5912	18998	32198	0.63	2.0E-48	AA613171.1	EST_HUMAN	no18g01.s1 NCI_CGAP_Phe1 Homo sapiens cDNA clone IMAGE:1101072 3'
5912	18998	32189	0.63	2.0E-48	AA613171.1	EST_HUMAN	no18g01.s1 NCI_CGAP_Phe1 Homo sapiens cDNA clone IMAGE:1101072 3'
7762	20715	34086	3.9	2.0E-48	AB040934.1	NT	Homo sapiens mRNA for KIAA1501 protein, partial cds
7762	20715	34087	3.9	2.0E-48	AB040934.1	NT	Homo sapiens mRNA for KIAA1501 protein, partial cds
7777	20730	34103	3.52	2.0E-48	11496238	NT	Homo sapiens v-rel avian reticuloendotheliosis viral oncogene homolog A (nuclear factor of kappa light polypeptide gene enhancer in B-cells 3 (p65)) (RELA), mRNA
8698	21668	35089	1.37	2.0E-48	AV743451.1	EST_HUMAN	AV743451 CB Homo sapiens cDNA clone CBCCCGG10 5'
12318	13126	26025	3.8	2.0E-48	AA465007.1	EST_HUMAN	zx80c03.r1 Soares ovary tumor NBHOT Homo sapiens cDNA clone IMAGE:810052 5'
58	13177	26089	3.37	1.0E-48	7708534	NT	Homo sapiens dispiatin resistance-associated overexpressed protein (LOC51747), mRNA
874	13930	26888	1.61	1.0E-48	4502168	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
1077	14122	27073	1.8	1.0E-48	7657430	NT	Homo sapiens EBNA-2 co-activator (100KD) (p100), mRNA
1077	14122	27074	1.8	1.0E-48	7657430	NT	Homo sapiens EBNA-2 co-activator (100KD) (p100), mRNA
1299	14335	27298	5.06	1.0E-48	5032032	NT	Homo sapiens RNA binding motif protein 6 (RBM6) mRNA
1893	14957	27954	14.5	1.0E-48	AL163302.2	NT	Homo sapiens chromosome 21 segment HS21C102
3500	16547	29473	0.83	1.0E-48	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
6420	19487	32736	1.17	1.0E-48	AI889077.1	EST_HUMAN	td17c01.x1 NCI_CGAP_Co18 Homo sapiens cDNA clone IMAGE:2075904 3' similar to TR:O14588 O14588 SIMILARITY TO U73941 ;
6420	19487	32737	1.17	1.0E-48	AI889077.1	EST_HUMAN	td17c01.x1 NCI_CGAP_Co18 Homo sapiens cDNA clone IMAGE:2075904 3' similar to TR:O14588 O14588 SIMILARITY TO U73941 ;
6648	19706		1.03	1.0E-48	Y18000.1	NT	Homo sapiens NF2 gene
6748	19802	33082	0.7	1.0E-48	AB028994.1	NT	Homo sapiens mRNA for KIAA1071 protein, partial cds
6748	19802	33083	0.7	1.0E-48	AB028994.1	NT	Homo sapiens mRNA for KIAA1071 protein, partial cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7471	20437	33794	3.15	1.0E-48	4755137	NT	Homo sapiens huntingtin (Huntington disease) (HD) mRNA
9183	22149	35576	0.49	1.0E-48	4758695	NT	Homo sapiens mitogen-activated protein kinase kinase 13 (MAP3K13), mRNA
9183	22149	35577	0.49	1.0E-48	4758695	NT	Homo sapiens mitogen-activated protein kinase kinase 13 (MAP3K13), mRNA
9568	22630	35980	1.19	1.0E-48	4502838	NT	Homo sapiens Chediak-Higashi syndrome 1 (CHS1) mRNA
9623	22667	36017	7.13	1.0E-48	AB033071.1	NT	Homo sapiens mRNA for KIAA1245 protein, partial cds
9924	22808	36280	0.69	1.0E-48	BE168410.1	EST_HUMAN	QV3-HT0513-060400-147-d01 HT0513 Homo sapiens cDNA
9941	22868	36330	4.48	1.0E-48	BF304683.1	EST_HUMAN	601888096F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4122119 5'
10736	23658	37151	3.85	1.0E-48	11429808	NT	Homo sapiens B cell linker protein (SLP65), mRNA
10736	23658	37152	3.85	1.0E-48	11429808	NT	Homo sapiens B cell linker protein (SLP65), mRNA
12280	25830		1.53	1.0E-48	W28785.1	EST_HUMAN	15d6 Human retina cDNA randomly primed sublibrary Homo sapiens cDNA
6171	19246	32478	3	8.0E-49	10048417	NT	Mus musculus T-box 20 (Tbx20), mRNA
6171	19246	32479	3	8.0E-49	10048417	NT	Mus musculus T-box 20 (Tbx20), mRNA
7017	20143	33460	0.57	8.0E-49	AA642035.1	EST_HUMAN	ns18h03.r1 NCJ_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1184021 5'
8638	21606	35029	3.32	8.0E-49	U23850.1	NT	Human inositol 1,4,5 trisphosphate receptor type 1 mRNA, partial cds
10348	23272	36748	2.1	8.0E-49	AB008681.1	NT	Homo sapiens gene for activin receptor type IIB, complete cds
11204	24158	37688	2.32	8.0E-49	AI623722.1	EST_HUMAN	ts36d12.x1 NCJ_CGAP_U4 Homo sapiens cDNA clone IMAGE:2230871 3' similar to contains Alu repetitive element; contains element PTR5 repetitive element;
140	13488	26398	2.24	7.0E-49	5729990	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, ATPase, 4 (PSMC4) mRNA
140	13488	26399	2.24	7.0E-49	5729990	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, ATPase, 4 (PSMC4) mRNA
393	13468	26398	1.53	7.0E-49	5729990	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, ATPase, 4 (PSMC4) mRNA
393	13468	26399	1.53	7.0E-49	5729990	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, ATPase, 4 (PSMC4) mRNA
394	13468	26398	2.06	7.0E-49	5729990	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, ATPase, 4 (PSMC4) mRNA
394	13468	26399	2.06	7.0E-49	5729990	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, ATPase, 4 (PSMC4) mRNA
1225	14263	27220	2.85	7.0E-49	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
5535	18632	31571	1.57	7.0E-49	AI807191.1	EST_HUMAN	wf25h04.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2356663 3' similar to TR:O54923
5545	18642	31582	1.33	7.0E-49	AL120937.1	EST_HUMAN	OS4923 RSEC15;
5903	18632	31571	0.84	7.0E-49	AI807191.1	EST_HUMAN	DKFZp762C033_s1 762 (synonym: hme12) Homo sapiens cDNA clone DKFZp762C033 3'
198	13299	26227	86.86	6.0E-49	AW731740.1	EST_HUMAN	wf25h04.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2356663 3' similar to TR:O54923
4142	17173	30062	1.14	6.0E-49	AL162091.1	EST_HUMAN	OS4923 RSEC15;
6582	19642	32909	0.65	6.0E-49	AU140742.1	EST_HUMAN	ba55g05.x1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2900504 3' similar to gb:U17206 40S RIBOSOMAL PROTEIN S4 (HUMAN); gb:M20632 Mouse LLRep3 protein mRNA from a repetitive element, complete (MOUSE);
							DKFZp761A138_s1 761 (synonym: hamy2) Homo sapiens cDNA clone DKFZp761A138 3'
							AU140742 PLAGE4 Homo sapiens cDNA clone PLAGE4000148 5'

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11609	24547	38107	2	6.0E-49	AW462218.1	EST_HUMAN	UIH-B13-alo-a-05-0-UI.s1 NCL_CGAP_Sub5 Homo sapiens cDNA clone IMAGE:3068048 3'
11972	24850	38446	4.09	6.0E-49	AA366556.1	EST_HUMAN	EST77525 Pancreas tumor III Homo sapiens cDNA 5' end
11972	24850	38447	4.09	6.0E-49	AA366556.1	EST_HUMAN	EST77525 Pancreas tumor III Homo sapiens cDNA 5' end
12645	25723		1.7	6.0E-49	AA707587.1	EST_HUMAN	229c08.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:451684 3'
713	13775	26708	8.21	5.0E-49	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
713	13775	26709	8.21	5.0E-49	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
1809	14837	27828	3.44	5.0E-49	AA172121.1	EST_HUMAN	zp29c07.r1 Stratagene neuroepithelium (#837231) Homo sapiens cDNA clone IMAGE:610860 5' similar to TR:G233228 G233228 RTVL-H PROTEIN. :contains LTR7 LTR7 LTR7 repetitive element ;
2760	15752	28772	9.75	5.0E-49	U17714.1	NT	Homo sapiens putative tumor suppressor ST13 (ST13) mRNA, complete cds
3286	16340	29259	6.07	5.0E-49	11436355	NT	Homo sapiens similar to ribosomal protein S27 (metalloproteinin 1) (H. sapiens) (LOC633362), mRNA
526	13597	26514	25.9	4.0E-49	AW199533.1	EST_HUMAN	X08301.x1 NCL_CGAP_U4 Homo sapiens cDNA clone IMAGE:2675593 3' similar to WP:B0350.2B
7457	20423	33778	1.06	4.0E-49	Z26634.2	NT	OE06703 ;
7457	20423	33779	1.06	4.0E-49	Z26634.2	NT	Homo sapiens mRNA for ankyrin B (440 kDa)
7487	20452	33811	0.66	4.0E-49	11525737	NT	Homo sapiens mRNA for ankyrin B (440 kDa)
7487	20452	33812	0.66	4.0E-49	11525737	NT	Homo sapiens UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 8 (GalNAc-T8) (GALNT8), mRNA
8109	21046	34446	0.71	4.0E-49	7962209	NT	Homo sapiens UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 8 (GalNAc-T8) (GALNT8), mRNA
9216	22182	35614	0.53	4.0E-49	11425374	NT	Homo sapiens KIAA0623 gene product (KIAA0623), mRNA
9216	22182	35615	0.53	4.0E-49	11425374	NT	Homo sapiens copine III (CPNE3), mRNA
12508	25939		8.71	4.0E-49	AA210798.1	EST_HUMAN	Homo sapiens copine III (CPNE3), mRNA
12594	25297		3.19	4.0E-49	AF240786.1	NT	z190105.r1 NCL_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:682877 5'
562	13632	26548	1.27	3.0E-49	X68968.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
2656	15653		1.93	3.0E-49	AA016131.1	EST_HUMAN	H. sapiens mRNA for acetyl-CoA carboxylase
5019	18033	30919	2.11	3.0E-49	U46999.1	NT	z631c05.r1 Soares retina N2b4HR Homo sapiens cDNA clone IMAGE:360584 5' similar to contains L1.13 L1 repetitive element ;
7650	20610	33976	10.82	3.0E-49	H39479.1	EST_HUMAN	Human type IV collagen (COL4A6) gene, exon 40
11633	24570	38134	1.54	3.0E-49	AA337561.1	EST_HUMAN	EST25612 WATM1 Homo sapiens cDNA clone 25e12
662	13728		3.89	2.0E-49	BE165080.1	EST_HUMAN	EST142572 Endometrial tumor Homo sapiens cDNA 5' end
3236	16201	29213	1.5	2.0E-49	N26446.1	EST_HUMAN	MR3-HT0487-150200-113-g01 HT0487 Homo sapiens cDNA
							yx23d06.r1 Soares melanocyte 2NbHM Homo sapiens cDNA clone IMAGE:262571 5'

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Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3583	16628	29547	0.78	2.0E-49	AF026584.1	NT	Homo sapiens RNA binding protein II (RBMII) gene, complete cds
6800	19952	33249	1.14	2.0E-49	AV717938.1	EST_HUMAN	AV717938 DDB Homo sapiens cDNA clone DCBALB01 5'
8436	21405		1.62	2.0E-49	MB6033.1	EST_HUMAN	EST02558 Fetal brain, Striatum (cat#38206) Homo sapiens cDNA clone HFBCY50
12603	25821		2.57	2.0E-49	AF163864.1	NT	Homo sapiens SNCA isoform (SNCA) gene, complete cds, alternatively spliced
900	13955		9.35	1.0E-49	BF035327.1	EST_HUMAN	601459531F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3862086 5'
1557	14589	27560	1.27	1.0E-49	4557887	NT	Homo sapiens keratin 18 (KR18) mRNA
1818	14845	27837	3.33	1.0E-49	BE255216.1	EST_HUMAN	601115769F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3356273 5'
5433	18535	31444	5.72	1.0E-49	BF131007.1	EST_HUMAN	601820053F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:4052052 5'
6196	19270	32505	0.87	1.0E-49	H18291.1	EST_HUMAN	Yn48h04.r1 Soares adult brain N2b5HB55Y Homo sapiens cDNA clone IMAGE:171703 5' similar to SP*GBG1_HUMAN Q08447 GUANINE NUCLEOTIDE-BINDING PROTEIN G(T) GAMMA-1 SUBUNIT ;
6202	19276	32510	1	1.0E-49	AW954840.1	EST_HUMAN	EST376713 IMAGE resequences, MAGH Homo sapiens cDNA
7427	20394	33744	0.58	1.0E-49	AV703000.1	EST_HUMAN	AV703000 ADB Homo sapiens cDNA clone ADBCYD11 5'
7427	20394	33745	0.59	1.0E-49	AV703000.1	EST_HUMAN	AV703000 ADB Homo sapiens cDNA clone ADBCYD11 5'
7433	20400	33753	3.3	1.0E-49	BE398110.1	EST_HUMAN	601290330F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3620863 5'
7433	20400	33754	3.3	1.0E-49	BE398110.1	EST_HUMAN	601290330F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3620863 5'
7520	20485	33848	2.2	1.0E-49	N25884.1	EST_HUMAN	Yw78g12.s1 Soares placenta 8tc9weeks 2N6HP8tc9W Homo sapiens cDNA clone IMAGE:258406 3' similar to gb:X65873 KINESIN HEAVY CHAIN (HUMAN);
7520	20485	33847	2.2	1.0E-49	N25884.1	EST_HUMAN	Yw78g12.s1 Soares placenta 8tc9weeks 2N6HP8tc9W Homo sapiens cDNA clone IMAGE:258406 3' similar to gb:X65873 KINESIN HEAVY CHAIN (HUMAN);
8414	21383	34790	0.69	1.0E-49	11321580	NT	Homo sapiens succinate-CoA ligase, GDP-forming, alpha subunit (SUCLG1), mRNA
8414	21383	34791	0.69	1.0E-49	11321580	NT	Homo sapiens succinate-CoA ligase, GDP-forming, alpha subunit (SUCLG1), mRNA
9023	21989		0.78	1.0E-49	9994184	NT	Homo sapiens RNA binding motif protein 7 (LOC51120), mRNA
9344	22309	35734	1.14	1.0E-49	BE409340.1	EST_HUMAN	601300992F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3635398 5'
10485	23407	36903	1.22	1.0E-49	AL043129.2	EST_HUMAN	DKFZp434D2423_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434D2423 5'
11399	24344	37877	1.99	1.0E-49	AB020335.1	NT	Homo sapiens Pancreas-specific TSA305 mRNA, complete cds
11640	24577	38143	3.12	1.0E-49	11427366	NT	Homo sapiens brefeldin A-inhibited guanine nucleotide-exchange protein 1 (BIG1), mRNA
12147	25007		1.7	1.0E-49	BE159343.1	EST_HUMAN	MR0-HT0407-010200-006-002 HT0407 Homo sapiens cDNA
12502	25241	*	2.78	1.0E-49	11418322	NT	Homo sapiens cathenin EGF LAG seven-pass G-type receptor 1 (CELSR1), mRNA
6544	25997		1.06	9.0E-50	BE285758.1	EST_HUMAN	601176250F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531588 5'
171	13273	28198	3.9	8.0E-50	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
720	13782	26716	2.14	8.0E-50	X95097.2	NT	Homo sapiens mRNA for VIP receptor 2
720	13782	26717	2.14	8.0E-50	X95097.2	NT	Homo sapiens mRNA for VIP receptor 2
1778	14807	27793	4	8.0E-50	4501890	NT	Homo sapiens actinin, alpha 1 (ACTN1) mRNA
2710	15704	28720	2.18	8.0E-50	4828656	NT	Homo sapiens capping protein (actin filament) muscle Z-line, beta (CAPZB), mRNA

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Table 4
Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
621	13686	26604	0.68	7.0E-50	BE089591.1	EST_HUMAN	QV0-BT0703-280400-211-e08 BT0703 Homo sapiens cDNA
6952	20176	33500	1.21	7.0E-50	BF091922.1	EST_HUMAN	RC6-TN0073-150900-011-A12 TN0073 Homo sapiens cDNA
6952	20176	33501	1.21	7.0E-50	BF091922.1	EST_HUMAN	RC6-TN0073-150900-011-A12 TN0073 Homo sapiens cDNA
7526	20490	33852	0.62	7.0E-50	AA627822.1	EST_HUMAN	nc59e12.s1 NCI_CGAP_Cc9 Homo sapiens cDNA clone IMAGE:1148206 3' similar to gb:X68391.60S
11108	24068	37590	28.05	7.0E-50	AB72137.1	EST_HUMAN	RIBOSOMAL PROTEIN L6 (HUMAN); wm55g11.x1 NCI_CGAP_UK2 Homo sapiens cDNA clone IMAGE:2439908 3'
8558	21524		6.69	6.0E-50	BE044076.1	EST_HUMAN	hc36h04.x1 NCI_CGAP_U1 Homo sapiens cDNA clone IMAGE:3039511 3' similar to contains MER29.b3
11166	24124	37652	7.96	6.0E-50	AA312079.1	EST_HUMAN	MER29 repetitive element;
11166	24124	37653	7.96	6.0E-50	AA312079.1	EST_HUMAN	EST182775 Jurkat T-cells VI Homo sapiens cDNA 5' end
1808	14836	27826	1.18	5.0E-50	BF332938.1	EST_HUMAN	EST182775 Jurkat T-cells VI Homo sapiens cDNA 5' end
1808	14836	27827	1.18	5.0E-50	BF332938.1	EST_HUMAN	CM0-BT0792-300500-398-b05 BT0792 Homo sapiens cDNA
9448	22412		5.65	5.0E-50	AA557683.1	EST_HUMAN	CM0-BT0792-300500-398-b05 BT0792 Homo sapiens cDNA
918	13972		1.45	4.0E-50	AA601143.1	EST_HUMAN	nl45h10.s1 NCI_CGAP_P14 Homo sapiens cDNA clone IMAGE:1043683 similar to contains PTR5.13 PTR5 repetitive element;
6497	19561	32813	0.54	4.0E-50	11440683	NT	no54e08.s1 NCI_CGAP_SS1 Homo sapiens cDNA clone IMAGE:1104520 3' similar to gb:X53741_rna1
7445	20411	33763	0.93	4.0E-50	BE087536.1	EST_HUMAN	FIBULIN-1, ISOFORM A PRECURSOR (HUMAN); Homo sapiens cys2einyl-RNA synthetase (CARS), mRNA
1955	14978		2.86	3.0E-50	M18048.1	NT	QV1-BT0681-280300-127-412 BT0681 Homo sapiens cDNA
2525	15528	28549	1.11	3.0E-50	BE259196.1	EST_HUMAN	Human endogenous retrovirus RTVL-H2
3310	16363	29283	0.88	3.0E-50	AA746142.1	EST_HUMAN	601109717F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3350309 5'
6834	19887	33180	0.6	3.0E-50	11419317	NT	603f06.s1 NCI_CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1322627 3'
6834	19887	33181	0.6	3.0E-50	11419317	NT	Homo sapiens protein tyrosine phosphatase, non-receptor type 12 (PTPN12), mRNA
6929	20153	33472	1.56	3.0E-50	11421514	NT	Homo sapiens protein tyrosine phosphatase, non-receptor type 12 (PTPN12), mRNA
7906	20849	34234	4.3	3.0E-50	AF233436.2	NT	Homo sapiens similar to sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaforin) 3A (H. sapiens) (LOC33232), mRNA
7906	20849	34235	4.3	3.0E-50	AF233436.2	NT	Homo sapiens FYVE domain-containing dual specificity protein phosphatase FYVE-DSP1a mRNA, complete cds
8929	21895	35323	0.61	3.0E-50	6601589	NT	Homo sapiens FYVE domain-containing dual specificity protein phosphatase FYVE-DSP1a mRNA, complete cds
10177	23102	36582	1.1	3.0E-50	AB048818.1	NT	Homo sapiens ankyrin-like with transmembrane domains 1 (ANKTM1), mRNA
10186	23111	36595	0.96	3.0E-50	11418514	NT	Homo sapiens mRNA for KIAA1598 protein, partial cds
10885	23805	37309	0.74	3.0E-50	AB002297.1	NT	Homo sapiens t-complex 10 (a murine top homolog) (TCP10), mRNA
11438	24381	37920	1.99	3.0E-50	11436955	NT	Human mRNA for KIAA0299 gene, partial cds
							Homo sapiens Grb2-associated binder 2 (KIAA0571), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11792	23947	37468	8.4	3.0E-50	AJ245621.1	NT	Homo sapiens CTL2 gene
778	13837		6.8	2.0E-50	AF05066.1	NT	Homo sapiens MHC class 1 region
1081	14125	27078	6.73	2.0E-50	4557752	NT	Homo sapiens midline 1 (Opliz/BBB syndrome) (MID1) mRNA
1437	14470	27448	0.95	2.0E-50	AF138303.1	NT	Homo sapiens decorin D mRNA, complete cds, alternatively spliced
3300	16353	29272	0.83	2.0E-50	AF111168.2	NT	Homo sapiens serine palmitoyl transferase, subunit II gene, complete cds, and unknown genes
4289	17318	30197	0.75	2.0E-50	D86424.1	NT	Mus musculus mRNA for high-sulfur keratin protein, partial cds
7051	20073	33380	0.51	2.0E-50	AU124065.1	EST_HUMAN	AU124065 NT2RM2 Homo sapiens cDNA clone NT2RM2001609 5'
8659	21627	35047	1.09	2.0E-50	AB038162.1	NT	Homo sapiens TFF gene cluster for trefoil factor, complete cds
8659	21627	35048	1.09	2.0E-50	AB038162.1	NT	Homo sapiens TFF gene cluster for trefoil factor, complete cds
8769	21766	35189	6.78	2.0E-50	X06956.1	NT	Human HALPHA44 gene for alpha-tubulin, exons 1-3
8799	21768	35190	6.78	2.0E-50	X06956.1	NT	Human HALPHA44 gene for alpha-tubulin, exons 1-3
10244	23169	36657	1.43	2.0E-50	9910293	NT	Mus musculus keratin complex 2, gene 6g (K12-6g), mRNA
10244	23169	36658	1.43	2.0E-50	9910293	NT	Mus musculus keratin complex 2, gene 6g (K12-6g), mRNA
11971	24849		1.52	2.0E-50	AF023861.1	NT	Macaca mulatta cyclophilin A mRNA, complete cds
462	13535	26461	2.26	1.0E-50	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
2373	15381		9.27	1.0E-50	AJ271735.1	NT	Homo sapiens Xq pseudautosomal region; segment 1/2
7970	20909		0.55	1.0E-50	AJ271735.1	NT	Homo sapiens Xq pseudautosomal region; segment 1/2
10553	23475	36970	0.97	1.0E-50	D11078.1	NT	Homo sapiens RGH2 gene, retrovirus-like element
6095	19174	32390	1.01	9.0E-51	AW511225.1	EST_HUMAN	h044602.x1 Scores_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2912378 3' similar to TR:O95636
6350	19419	32660	0.71	9.0E-51	AA744837.1	EST_HUMAN	O95636 CAMP-REGULATED GUANINE NUCLEOTIDE EXCHANGE FACTOR II ;
9020	21986	35407	0.55	9.0E-51	AJ791154.1	EST_HUMAN	ny67h03.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1283381 3'
9879	22632	36088	1.2	9.0E-51	AA043738.1	EST_HUMAN	ab23g04.x5 Stratagene lung (#937210) Homo sapiens cDNA clone IMAGE:841686 3' similar to
9858	22794	36245	0.52	9.0E-51	AJ791154.1	EST_HUMAN	SW:PSM_HUMAN Q04609 PROSTATE-SPECIFIC MEMBRANE ANTIGEN ;
9858	22794	36246	0.52	9.0E-51	AJ791154.1	EST_HUMAN	zk51c09.r1 Scores_pregnant_uterus_NCHPU Homo sapiens cDNA clone IMAGE:486352 5'
11804	23959	37483	1.5	9.0E-51	H89078.1	EST_HUMAN	ab23g04.x5 Stratagene lung (#937210) Homo sapiens cDNA clone IMAGE:841686 3' similar to
11804	23959	37484	1.5	9.0E-51	H89078.1	EST_HUMAN	SW:PSM_HUMAN Q04609 PROSTATE-SPECIFIC MEMBRANE ANTIGEN ;
4599	17620	30513	6.51	8.0E-51	AA610842.1	EST_HUMAN	yw24g06.r1 Morton Fetal Cochlea Homo sapiens cDNA clone IMAGE:253210 5'
7914	20857	34245	2.04	8.0E-51	11439567	NT	yw24g06.r1 Morton Fetal Cochlea Homo sapiens cDNA clone IMAGE:253210 5'
9819	22668		0.96	8.0E-51	AU138590.1	EST_HUMAN	np98a09.s1 NCI_CGAP_Lu1 Homo sapiens cDNA clone IMAGE:142440 3' similar to gb:X12671_mn1
							HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN A1 (HUMAN);
							Homo sapiens PDZ-73 protein (PDZ-73/INY-CO-38), mRNA
							AU138590 PLACE1 Homo sapiens cDNA clone PLACE1008867 5'

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3295	16348	29268	1.68	7.0E-51	AW889219.1	EST_HUMAN	QV4-NT0028-200400-180-d05 NT0028 Homo sapiens cDNA
3374	16424	29349	0.72	7.0E-51	AW274720.1	EST_HUMAN	xn34e03.x1 NCL_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2695584 3' similar to TR:Q9Z340 Q9Z340 ATYPICAL PKC SPECIFIC BINDING PROTEIN.;
4196	17227	30116	1.4	7.0E-51	AL079628.1	EST_HUMAN	DKFZp434B2229_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434B2229 5'
4196	17227	30117	1.4	7.0E-51	AL079628.1	EST_HUMAN	DKFZp434B2229_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434B2229 5'
4378	17406	30286	1.54	7.0E-51	AW295603.1	EST_HUMAN	UIH-BW0-elp-b-05-0-U1.s1 NCL_CGAP_Sub6 Homo sapiens cDNA clone IMAGE:2729817 3'
11993	24870	38466	2.13	7.0E-51	AF161449.1	NT	Homo sapiens HSPC331 mRNA, partial cds
1530	14563	27534	0.91	6.0E-51	6678763	NT	Homo sapiens putative DNA binding protein (M96), mRNA
1996	15017	28024	5.54	6.0E-51	7657266	NT	Homo sapiens KIAA0929 protein Mx2 interacting nuclear target (MINT) homolog (KIAA0929), mRNA
3487	16533	29458	17.23	6.0E-51	7657266	NT	Homo sapiens KIAA0929 protein Mx2 interacting nuclear target (MINT) homolog (KIAA0929), mRNA
4338	17365	30247	0.69	6.0E-51	9910553	NT	Homo sapiens solute carrier family 2 (facilitated glucose transporter), member 9 (SLC2A9), mRNA
4338	17365	30248	0.69	6.0E-51	9910553	NT	Homo sapiens solute carrier family 2 (facilitated glucose transporter), member 9 (SLC2A9), mRNA
6105	19184	32403	2.8	6.0E-51	X01788.1	NT	Human haptoglobin related (Hpr) gene, exon 3
6116	19194	32417	8.29	6.0E-51	AF070083.1	NT	Homo sapiens mitogen-activated protein kinase kinase 1 (MKK4) gene, exon 4
6116	19194	32418	8.29	6.0E-51	AF070083.1	NT	Homo sapiens mitogen-activated protein kinase kinase 1 (MKK4) gene, exon 4
6925	20149	33469	1.13	6.0E-51	4506736	NT	Homo sapiens ribosomal protein S6 kinase, 70kD, polypeptide 1 (RPS6KB1) mRNA
7076	20998	33408	1.03	6.0E-51	11416751	NT	Homo sapiens non-kinase Cdc42 effector protein SPEC2 (LOC56980), mRNA
7157	18389	31233	2.29	6.0E-51	11429665	NT	Homo sapiens cerebral cell adhesion molecule (LOC51148), mRNA
9492	22456	35895	0.62	6.0E-51	11428525	NT	Homo sapiens hypothetical protein FLJ11042 (FLJ11042), mRNA
9492	22456	35896	0.62	6.0E-51	11428525	NT	Homo sapiens hypothetical protein FLJ11042 (FLJ11042), mRNA
10042	22969	36436	2.04	6.0E-51	7661535	NT	Homo sapiens B9 protein (B9), mRNA
10120	23046	36525	1.14	6.0E-51	U50093.1	NT	Human ankyrin (ANK1) gene, exon 2
11585	24523	38078	1.55	6.0E-51	11526289	NT	Homo sapiens interleukin 17 receptor (IL17R), mRNA
792	13851	26798	8.57	5.0E-51	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
804	13862	26812	1.9	5.0E-51	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
993	15856	26998	1.23	5.0E-51	AL133204.1	NT	Novel human gene mapping to chromosome X
1612	14644	27620	1.02	5.0E-51	5031980	NT	Homo sapiens 26S proteasome-associated pad1 homolog (POH1) mRNA
2599	15600	28619	7.72	5.0E-51	AJ007558.1	NT	Homo sapiens mRNA for nucleoporin 155
3965	17005	29919	1.85	5.0E-51	M30938.1	NT	Human Ku (p70/p80) subunit mRNA, complete cds
3965	17005	29920	1.85	5.0E-51	M30938.1	NT	Human Ku (p70/p80) subunit mRNA, complete cds
11610	24548	38108	4.07	5.0E-51	5803136	NT	Homo sapiens RNA binding motif protein 3 (RBM3), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
135	13240	26171	1.53	3.0E-51	AI587348.1	EST_HUMAN	tt81c09.x1 NCI_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2224720 3' similar to gb:M26326 KERATIN, TYPE I CYTOSKELETAL 18 (HUMAN);
1180	14221	27177	3.31	3.0E-51	AI587348.1	EST_HUMAN	tt81c09.x1 NCI_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2224720 3' similar to gb:M26326 KERATIN, TYPE I CYTOSKELETAL 18 (HUMAN);
1940	14964	27961	1.09	3.0E-51	AA211296.1	EST_HUMAN	zq87d01.s1 Stragene hMT neuron (#837233) Homo sapiens cDNA clone IMAGE:849008 3'
4354	17381	30263	2.23	3.0E-51	AL159142.1	NT	Novel human gene mapping to chromosome 22
7831	20779	34157	1.2	3.0E-51	R15914.1	EST_HUMAN	ye47c08.r1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:53233 5' similar to gb:M14123_cdb4 RETROVIRUS-RELATED POLYPROTEIN (HUMAN); contains LTR5 repetitive element ;
9191	22157		4.32	3.0E-51	M29063.1	NT	Human hnRNP C2 protein mRNA
9423	26008		0.46	3.0E-51	AW583777.1	EST_HUMAN	la04d06.y1 Human Pancreatic islets Homo sapiens cDNA 5'
12810	26435		1.36	3.0E-51	AF003528.1	NT	Homo sapiens X-linked anhidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
366	13452	26380	1.19	2.0E-51	4507798	NT	Homo sapiens ubiquitin protein ligase E3A (human papilloma virus E6-associated protein, Angelman syndrome) (UBE3A) mRNA
689	13752	26878	0.66	2.0E-51	BE391063.1	EST_HUMAN	601285694F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3607463 5'
689	13752	26879	0.66	2.0E-51	BE391063.1	EST_HUMAN	601285694F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3607463 5'
1697	14727	27710	4.99	2.0E-51	AA233352.1	EST_HUMAN	to TR:G233226 G233226 RTVL-H PROTEIN, contains LTR7 L3 LTR7 repetitive element ;
3745	16787	29639	2.46	2.0E-51	AI492415.1	EST_HUMAN	tt27g03.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2131732 3'
4521	17546	30433	0.69	2.0E-51	AW137826.1	EST_HUMAN	UI-H-B1-adj-d-02-0-J1.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2716851 3'
5513	18613	31545	0.57	2.0E-51	AI732851.1	EST_HUMAN	ob34f09.x5 NCI_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1325609 3' similar to SW:NME1_MOUSE P35436 GLUTAMATE [NMDA] RECEPTOR SUBUNIT EPSILON 1 PRECURSOR ;
5513	18613	31546	0.57	2.0E-51	AI732851.1	EST_HUMAN	ob34f09.x5 NCI_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1325609 3' similar to SW:NME1_MOUSE P35436 GLUTAMATE [NMDA] RECEPTOR SUBUNIT EPSILON 1 PRECURSOR ;
8131	19208	32433	4.17	2.0E-51	BE782015.1	EST_HUMAN	601470448F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3873563 5'
7531	20484		0.68	2.0E-51	AF219927.1	NT	Homo sapiens diacylglycerol kinase Iota (DGK1) gene, exon 23
7690	20648	34012	0.91	2.0E-51	7662349	NT	Homo sapiens cell recognition molecule Caspr2 (KIAA0868), mRNA
9048	22012	35434	1.54	2.0E-51	BE901994.1	EST_HUMAN	601676787F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3959613 5'
9046	22012	35435	1.54	2.0E-51	BE901994.1	EST_HUMAN	601676787F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3959613 5'
9389	22354	35785	0.97	2.0E-51	11037064	NT	Homo sapiens disrupted in schizophrenia 1 (DISC1), mRNA
8870	22823	36276	1.35	2.0E-51	AI917078.1	EST_HUMAN	ts74e07.x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2236980 3' similar to SW:TRKC_HUMAN Q16288 NT-3 GROWTH FACTOR RECEPTOR PRECURSOR ;
9962	22889	36350	5.78	2.0E-51	BE165980.1	EST_HUMAN	MR3-HT0487-150200-113-q01 HT0487 Homo sapiens cDNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9977	22904	36368	0.53	2.0E-51	AB007926.1	NT	Homo sapiens mRNA for KIAA0457 protein, partial cds
10789	23720	37223	1.54	2.0E-51	AV682474.1	EST_HUMAN	AV682474 GKB Homo sapiens cDNA clone GKBAGF05 5'
10838	23758	37258	1.14	2.0E-51	AA378559.1	EST_HUMAN	EST91296 Synovial sarcoma Homo sapiens cDNA 5' end
11655	18613	31545	7.03	2.0E-51	AI732851.1	EST_HUMAN	bb3409.x8 NCI_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1325609 3' similar to SW-NME1_MOUSE P35436 GLUTAMATE [NMDA] RECEPTOR SUBUNIT EPSILON 1 PRECURSOR ;
11655	18613	31546	7.03	2.0E-51	AI732851.1	EST_HUMAN	bb3409.x8 NCI_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1325609 3' similar to SW-NME1_MOUSE
12122	24991	38592	2.3	2.0E-51	AA011698.1	EST_HUMAN	P35436 GLUTAMATE [NMDA] RECEPTOR SUBUNIT EPSILON 1 PRECURSOR ;
12803	25430	31740	2	2.0E-51	11418159	NT	z03a01.r1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:429672 5'
114	13225	26149	8.48	1.0E-51	4503528	NT	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (t(10q24) (Drosophila) homolog); translocated to, 4 (MLLT4), mRNA
1491	14524	30352	33.7	1.0E-51	AV742248.1	EST_HUMAN	Homo sapiens eukaryotic translation initiation factor 4A, isoform 1 (EIF4A1) mRNA
4437	17463	30352	0.99	1.0E-51	4759071	NT	AV742248 CB Homo sapiens cDNA clone CBFBC12 5'
4437	17463	30353	0.99	1.0E-51	4759071	NT	Homo sapiens small inducible cytokine subfamily A (Cys-Cys), member 15 (SCYA15) mRNA
5463	18565	31476	3.94	1.0E-51	T18862.1	EST_HUMAN	Homo sapiens small inducible cytokine subfamily A (Cys-Cys), member 15 (SCYA15) mRNA
7911	20854	34242	0.98	1.0E-51	AI572532.1	EST_HUMAN	b12056i Testis 1 Homo sapiens cDNA clone b12056
8235	21204	34608	0.79	1.0E-51	BF434359.1	EST_HUMAN	tc39g02.x1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:2089106 3'
12073	26012		1.67	1.0E-51	AV760590.1	EST_HUMAN	7c96b02.x1 NCI_CGAP_Ov18 Homo sapiens cDNA clone IMAGE:3644091 3' similar to TRCP87892 P87892 PROTEASE ;
12689	25283		5.29	9.0E-52	AA777621.1	EST_HUMAN	AV760590 MDS Homo sapiens cDNA clone MDSBB02 5'
153	13256	26184	9.3	8.0E-52	AA720574.1	EST_HUMAN	z195a07.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:448500 3' similar to contains THR.I3.THR repetitive element ;
1495	14528	27500	1.77	8.0E-52	X84900.1	NT	nw21g02.s1 NCI_CGAP_GCB0 Homo sapiens cDNA clone IMAGE:1241138 3' similar to contains THR.I3 THR repetitive element ;
1662	14694	27669	2.98	8.0E-52	11968028	NT	H.sapiens mRNA for laminin-5, alpha3b chain
1662	14694	27670	2.98	8.0E-52	11968028	NT	Homo sapiens hypothetical protein FLJ13556 similar to N-myc downstream regulated 3 (FLJ13556), mRNA
4019	14694	27669	6.44	8.0E-52	11968028	NT	Homo sapiens hypothetical protein FLJ13556 similar to N-myc downstream regulated 3 (FLJ13556), mRNA
4019	14694	27670	6.44	8.0E-52	11968028	NT	Homo sapiens hypothetical protein FLJ13556 similar to N-myc downstream regulated 3 (FLJ13556), mRNA
7760	20713	34082	0.69	8.0E-52	11416585	NT	Homo sapiens transforming growth factor, beta-induced, 68kD (TGFB1), mRNA
7760	20713	34083	0.69	8.0E-52	11416585	NT	Homo sapiens transforming growth factor, beta-induced, 68kD (TGFB1), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9387	22332	35762	1.55	7.0E-52	W59471.1	EST_HUMAN	zc59a06.r1 Soares_papillary_thyroid_tumor_Nb1HPA Homo sapiens cDNA clone IMAGE:326578 5' similar to contains Alu repetitive element;
1181	14231		0.65	6.0E-52	BE072409.1	EST_HUMAN	QV3-BT0537-271299-049-d07 BT0537 Homo sapiens cDNA
1703	14733	27715	3.37	6.0E-52	AF109907.1	NT	Homo sapiens S164 gene, partial cds; PS1 and hypothetical protein genes, complete cds; and S171 gene, partial cds
5816	18906	32089	1.06	6.0E-52	AI208794.1	EST_HUMAN	qg44f04.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1838047 3'
11543	24484	38037	1.63	6.0E-52	BE048172.1	EST_HUMAN	tz46h04.y1 NCI_CGAP_Brn52 Homo sapiens cDNA clone IMAGE:2291671 5' similar to SW:PCBM_MOUSE_Q05793 BASEMENT MEMBRANE-SPECIFIC HEPARAN SULFATE PROTEOGLYCAN CORE PROTEIN PRECURSOR ;
4469	17495	30383	1.6	5.0E-52	Z78988.1	NT	H. sapiens flow-sorted chromosome 6 HindIII fragment, SC6pA18H7
9747	22688	36144	0.47	5.0E-52	11437365	NT	Homo sapiens FSHD region gene 1 (FRG1), mRNA
1670	14702	27677	1.25	4.0E-52	AF257318.1	NT	Homo sapiens SH3-containing protein SH3GLB1 mRNA, complete cds
1803	14831	27818	1.15	4.0E-52	4758843	NT	Homo sapiens nucleoporin 155kD (NUP155) mRNA
4769	17789	30682	1	4.0E-52	AI766814.1	EST_HUMAN	wf89p02.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2400459 3'
5359	18484	31334	1.41	4.0E-52	4506132	NT	Homo sapiens phosphoribosyl pyrophosphate synthetase-associated protein 2 (PRPSAP2) mRNA
5359	18484	31335	1.41	4.0E-52	4506132	NT	Homo sapiens phosphoribosyl pyrophosphate synthetase-associated protein 2 (PRPSAP2) mRNA
7943	20886	34278	0.56	4.0E-52	11525731	NT	Homo sapiens RAD51-interacting protein (PIR51), mRNA
8373	21342	34753	2.33	4.0E-52	BE622032.1	EST_HUMAN	601440687.F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3915836 5'
8879	21846	35268	6.18	4.0E-52	11417035	NT	Homo sapiens hydroxysteroid (17-beta) dehydrogenase 4 (HSD17B4), mRNA
12426	25194		3.05	4.0E-52	11418177	NT	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
12906	25486		4.73	4.0E-52	AB002059.1	NT	Homo sapiens DNA for Human P2XM, complete cds
4119	17152		11.15	3.0E-52	11437042	NT	Homo sapiens hypothetical protein FLJ10675 (FLJ10675), mRNA
564	13634	26550	1.97	2.0E-52	M10976.1	NT	Human endogenous retroviral DNA (4-1), complete retroviral segment
564	13634	26551	1.97	2.0E-52	M10976.1	NT	Human endogenous retroviral DNA (4-1), complete retroviral segment
2030	15049	28064	1.43	2.0E-52	AB033075.1	NT	Homo sapiens mRNA for KIAA1249 protein, partial cds
2507	15510	28537	1.95	2.0E-52	BE207575.1	EST_HUMAN	bb66b07.y1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3030421 5' similar to gb.X16483 M.musculus mRNA for Zfp-1 zinc finger protein (MOUSE);
2746	15739		10.45	2.0E-52	BF077882.1	EST_HUMAN	602084710.F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4248891 5'
5013	18027	30912	3.26	2.0E-52	AI137188.3	NT	Novel human gene mapping to chromosome 20, similar to membrane transporters
5049	18081	30939	0.98	2.0E-52	AI141802.1	EST_HUMAN	qa56a05.s1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:1690784 3'
5049	18081	30940	0.98	2.0E-52	AI141802.1	EST_HUMAN	qa56a05.s1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:1690784 3'
5788	18930	32062	3.71	2.0E-52	AW848041.1	EST_HUMAN	IL3-CT0214-231299-053-E12 CT0214 Homo sapiens cDNA
6503	19567	32819	1.7	2.0E-52	11141868	NT	Homo sapiens interleukin 21 receptor (IL21R), mRNA
6872	19925	33221	1.04	2.0E-52	AB029004.1	NT	Homo sapiens mRNA for KIAA1081 protein, partial cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7129	20105	33416	0.73	2.0E-52	AI792146.1	EST_HUMAN	os45d12.y5 NCL_CGAP_Br2 Homo sapiens cDNA clone IMAGE:1608311 5'
8121	21058	34455	0.52	2.0E-52	5032158	NT	Homo sapiens transducin (beta)-like 1 (TBL1) mRNA
8121	21058	34456	0.52	2.0E-52	5032158	NT	Homo sapiens transducin (beta)-like 1 (TBL1) mRNA
9000	21866		11.69	2.0E-52	AF147860.1	NT	Macaca mulatta beta-tubulin mRNA, complete cds
9288	22254	35684	0.87	2.0E-52	AA778795.1	EST_HUMAN	zj45g05.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:453272 3'
9834	22683		1.05	2.0E-52	4758789	NT	Homo sapiens NADH dehydrogenase (ubiquinone) Fe-S protein 5 (15kD) (NADH-coenzyme Q reductase) (NDUFS5) mRNA
10474	23396	36893	6.19	2.0E-52	5730038	NT	Homo sapiens SET domain and mariner transposase fusion gene (SETMAR) mRNA
10474	23396	36894	6.19	2.0E-52	5730038	NT	Homo sapiens SET domain and mariner transposase fusion gene (SETMAR) mRNA
11538	24479	38029	3.09	2.0E-52	AB81482.1	EST_HUMAN	wj49c04.x1 NCL_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2406150 3' similar to contains THR.b2 THR repetitive element;
11538	24479	38030	3.09	2.0E-52	AB81482.1	EST_HUMAN	wj49c04.x1 NCL_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2406150 3' similar to contains THR.b2 THR repetitive element;
11551	24492	38048	2.73	2.0E-52	AV715377.1	EST_HUMAN	AV715377 DCB Homo sapiens cDNA clone DCBAIE03 5'
11680	24646		12.53	2.0E-52	W70260.1	EST_HUMAN	zd49g12.r1 Soares_fetal_heart_NBHH19W Homo sapiens cDNA clone IMAGE:344038 5'
11839	24819		2.73	2.0E-52	11417980	NT	Homo sapiens LIM domain kinase 2 (LIMK2), mRNA
12231	25982	31300	18.5	2.0E-52	AW236297.1	EST_HUMAN	xn72e07.x1 NCL_CGAP_OML1 Homo sapiens cDNA clone IMAGE:2700036 3' similar to contains Alu repetitive element; contains element LTR2 repetitive element;
12633	25319		7.5	2.0E-52	AB08985.1	EST_HUMAN	wf87d05.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2360649 3' similar to TR:Q16859 Q16859 CARBOXYLESTERASE;
534	13605	26524	1.45	1.0E-52	AA634445.1	EST_HUMAN	zu75h12.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:743879 3'
1373	14407	27377	9.6	1.0E-52	4504026	NT	Homo sapiens glutamate-ammonia ligase (glutamine synthase) (GLUL) mRNA
2542	15544		2.17	1.0E-52	4502238	NT	Homo sapiens arylsulfatase D (ARSD), transcript variant 1, mRNA
3072	16129	28041	1.99	1.0E-52	S61070.1	NT	pol=reverse transcriptase homolog (retroviral element) [human, endogenous retroviral element RTVL-Hp1, Genomic, 660 nt]
5406	18509	31386	4.22	1.0E-52	M29426.1	NT	Human P-glycoprotein (MDR1) gene, exon 4
6533	19596	32859	2.4	1.0E-52	U38954.1	NT	Human PMS2 related (hPMSR2) gene, complete cds
7664	20623	33987	2.35	1.0E-52	X07292.1	NT	Human aldolase C gene for fructose-1,6-bisphosphate aldolase
8150	21087	34486	0.55	1.0E-52	U80017.1	NT	Homo sapiens basic transcription factor 2 p44 (btf2p-44) gene, partial cds, neuronal apoptosis inhibitory protein (naip) and survival motor neuron protein (smn) genes, complete cds
8808	21775		1.13	1.0E-52	AL163227.2	NT	Homo sapiens chromosome 21 segment HS21C027
9543	22506	35955	0.7	1.0E-52	AF078779.1	NT	Rattus norvegicus putative four repeat ion channel mRNA, complete cds
10941	23861		1.21	1.0E-52	AW020370.1	EST_HUMAN	df08g05.y1 Morion Fetal Cochlea Homo sapiens cDNA clone IMAGE:2483145 5'
10951	23871		1.14	1.0E-52	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11117	24077	37601	1.84	1.0E-52	U48296.1	NT	Homo sapiens protein tyrosine phosphatase PTPCAAX1 (hPTPCAAX1) mRNA, complete cds
13114	25633	31608	1.3	1.0E-52	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
3805	16845	29752	0.9	9.0E-53	4506084	NT	Homo sapiens protein kinase, cAMP-dependent, regulatory, type II, beta (PRKAR2B) mRNA
4418	17445	30336	0.91	9.0E-53	AF001446.1	NT	Homo sapiens core binding factor alpha1 subunit (CBFA1) gene, exon 3
12477	25225		2.56	7.0E-53	BF238465.1	EST_HUMAN	601804771F1 NIH_MGC_54 Homo sapiens cDNA clone IMAGE:4132793 5'
12881	25858		6.21	7.0E-53	AI421782.1	EST_HUMAN	W44607.x1 NCI_CGAP_Brm23 Homo sapiens cDNA clone IMAGE:2098077 3' similar to contains THR11
5215	18224	31098	0.89	6.0E-53	BE295719.1	EST_HUMAN	601175776F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3530946 5'
4126	17189	30047	3	5.0E-53	4758543	NT	Homo sapiens heterogeneous nuclear ribonucleoprotein C (C1/C2) (HNRNPC) mRNA
12110	24980	38580	1.54	5.0E-53	BE728270.1	EST_HUMAN	601561627F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3831175 5'
12522	25253		1.67	5.0E-53	AW813563.1	EST_HUMAN	RC3-ST0197-151099-011-g10 ST0197 Homo sapiens cDNA
51	13171	26079	2.37	4.0E-53	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
51	13171	26080	2.37	4.0E-53	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
4859	17876	30784	1.11	4.0E-53	7705414	NT	Homo sapiens hook1 protein (HOOK1), mRNA
9771	22712		0.62	4.0E-53	AI613037.1	EST_HUMAN	W06H04.x1 NCI_CGAP_U13 Homo sapiens cDNA clone IMAGE:2278327 3'
10114	23040		0.71	4.0E-53	F13080.1	EST_HUMAN	HSC3ID041 normalized infant brain cDNA Homo sapiens cDNA clone c-3id04
11548	24489	38044	2.93	4.0E-53	BF128701.1	EST_HUMAN	601810969F1 NIH_MGC_48 Homo sapiens cDNA clone IMAGE:4053977 5'
11548	24499	38045	2.93	4.0E-53	BF128701.1	EST_HUMAN	601810969F1 NIH_MGC_48 Homo sapiens cDNA clone IMAGE:4053977 5'
2669	15686	28685	2.64	3.0E-53	AB026898.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
3744	16786	29698	1.01	3.0E-53	AW050836.1	EST_HUMAN	wz22c07.x1 Soares_Dieckgraebe_colon_NHCD Homo sapiens cDNA clone IMAGE:2558796 3'
5498	18599	31511	0.92	3.0E-53	AF001212.1	NT	Homo sapiens 26S proteasome subunit 9 mRNA, complete cds
5707	18802	31979	1.09	3.0E-53	11526287	NT	Homo sapiens MIL1 protein (MIL1), mRNA
6318	19389	32629	0.95	3.0E-53	BE160025.1	EST_HUMAN	QV1-HT0412-280300-123-c04 HT0412 Homo sapiens cDNA
7305	20276	33613	0.98	3.0E-53	Y10388.3	NT	H.sapiens graf gene
7305	20276	33614	0.98	3.0E-53	Y10388.3	NT	H.sapiens graf gene
8647	21615	35037	12.56	3.0E-53	S72043.1	NT	GIF=growth inhibitory factor [human, brain, Genomic, 2015 nt]
9211	22177	35607	0.69	3.0E-53	10835090	NT	Homo sapiens bone morphogenetic protein 5 (BMP5), mRNA
9412	22377		9.53	3.0E-53	5901953	NT	Homo sapiens FGFR1 oncogene partner (FOP), mRNA
458	13531		2.53	2.0E-53	AA366556.1	EST_HUMAN	EST77525 Pancreas tumor III Homo sapiens cDNA 5' end
2335	15346	28367	6.08	2.0E-53	U78027.1	NT	Homo sapiens Bruton's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein (L44L) and FTP3 (FTP3) genes, complete cds
2543	15545		11.44	2.0E-53	4502316	NT	Homo sapiens ATPase, H+ transporting, lysosomal (vacuolar proton pump) 31kD; Vacuolar proton-ATPase, subunit E; V-ATPase, subunit E (ATP6E), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2736	15730	28744	1.17	2.0E-53	4757915	NT	Homo sapiens core-binding factor, runt domain, alpha subunit 2; translocated to, 1; cyclin D-related (CBFA2T1) mRNA
2736	15730	28745	1.17	2.0E-53	4757915	NT	Homo sapiens core-binding factor, runt domain, alpha subunit 2; translocated to, 1; cyclin D-related (CBFA2T1) mRNA
3232	16287	29209	1.46	2.0E-53	7709687	NT	Homo sapiens leucine aminopeptidase (LOC51056), mRNA
3259	16313	29234	0.8	2.0E-53	AF083822.1	NT	Homo sapiens dihydropyridine receptor, alpha 2 subunit (CACNA2D1) gene, exon 6
4088	17122	30016	2.78	2.0E-53	M61873.1	NT	Human Krueppel-related DNA-binding protein (TF34) gene, partial cds
4520	17545	30432	1.23	2.0E-53	4509982	NT	Homo sapiens SKAP55 homologue (SKAP-HOM) mRNA
5193	18202	31074	0.96	2.0E-53	AL163281.2	NT	Homo sapiens chromosome 21 segment HS21C081
5193	18202	31075	0.96	2.0E-53	AL163281.2	NT	Homo sapiens chromosome 21 segment HS21C081
5500	18600	31512	3.33	2.0E-53	BF334740.1	EST_HUMAN	PM1-CT0396-170800-001-g03 CT0396 Homo sapiens cDNA
5500	18600	31513	3.33	2.0E-53	BF334740.1	EST_HUMAN	PM1-CT0396-170800-001-g03 CT0396 Homo sapiens cDNA
8203	21173	34583	1.13	2.0E-53	AW975598.1	EST_HUMAN	EST387707 MAGE resequences, MAGN Homo sapiens cDNA
8340	21309		0.61	2.0E-53	AA095652.1	EST_HUMAN	IS429 seq.F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA 5'
9763	22704		15.48	2.0E-53	AW245676.1	EST_HUMAN	2822665 SpTime NIH_MGC.7 Homo sapiens cDNA clone IMAGE:2822665 5'
1440	14473	27450	2	1.0E-53	AJ271736.1	NT	Homo sapiens Xq pseudautosomal region; segment 2/2
3421	16469	29389	1.29	1.0E-53	AB028898.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
5001	18015	30902	1.32	1.0E-53	BE296386.1	EST_HUMAN	601176725F1 NIH_MGC.17 Homo sapiens cDNA clone IMAGE:3531919 5'
6850	19903	33198	1.43	1.0E-53	BF364201.1	EST_HUMAN	CMA-NN1029-150800-549-g02 NN1029 Homo sapiens cDNA
7459	20425	33781	0.84	1.0E-53	BE012071.1	EST_HUMAN	RCS-BN1058-270400-031-D01 BN1058 Homo sapiens cDNA
8267	21236	34647	0.55	1.0E-53	AA249072.1	EST_HUMAN	II9571 seq.F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA 5'
9444	22408	35845	13.12	1.0E-53	X79536.1	NT	H. sapiens mRNA for hnRNP core protein A1
12105	24976	38574	3.08	1.0E-53	X98411.1	NT	H. sapiens mRNA for myosin-IE
12105	24976	38575	3.08	1.0E-53	X98411.1	NT	H. sapiens mRNA for myosin-IE
5375	25636	31353	5.13	9.0E-54	4506786	NT	Homo sapiens IQ motif containing GTPase activating protein 1 (IQGAP1) mRNA
208	13309	26236	1.73	8.0E-54	BE386785.1	EST_HUMAN	601272863F1 NIH_MGC.20 Homo sapiens cDNA clone IMAGE:3614031 5'
1852	14978	27874	2.4	8.0E-54	4504610	NT	Homo sapiens insulin-like growth factor 2 receptor (IGF2R) mRNA
6045	19127	32333	23.25	8.0E-54	6005700	NT	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 8 (ABCA8), mRNA
11962	24841	38434	1.67	8.0E-54	AW592568.1	EST_HUMAN	hf44e05.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2934752 3'
11962	24841	38435	1.67	8.0E-54	AW592568.1	EST_HUMAN	hf44e05.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2934752 3'
384	13497	26429	1.85	7.0E-54	AA812537.1	EST_HUMAN	al79c12.s1 Soares_testis_NHT Homo sapiens cDNA clone 1377046 3' similar to contains MER30.13 MER30 repetitive element
1847	14873	27869	1.51	7.0E-54	Y16645.1	NT	Homo sapiens mRNA for monocyte chemotactic protein-2

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2215	15229	28252	4.54	7.0E-54	N27177.1	EST_HUMAN	yw68d12.s1 Soares_placenta_8to9weeks_2NbHP8to9W Homo sapiens cDNA clone IMAGE:257399 3' similar to contains LTR7.b3 LTR7 repetitive element ;
10487	23409	36906	1.91	7.0E-54	11417222	NT	Homo sapiens similar to nuclear factor related to kappa B binding protein (H. sapiens) (LOC63182), mRNA
11623	24561		3.26	7.0E-54	AI160189.1	EST_HUMAN	qb67g03.x1 Soares_fetal_heart_NbHH19W Homo sapiens cDNA clone IMAGE:1705204 3' similar to contains OFR.11 OFR repetitive element ;
25	13145	26045	2.05	6.0E-54	AB003618.1	NT	Homo sapiens DNA for MICB, exon 4, 5 and partial cds
385	13498	26430	0.67	6.0E-54	8922148	NT	Homo sapiens hypothetical protein DKFZp434M035 (DKFZp434M035), mRNA
385	13498	26431	0.67	6.0E-54	8922148	NT	Homo sapiens hypothetical protein DKFZp434M035 (DKFZp434M035), mRNA
3298	16349	28269	0.99	6.0E-54	8922148	NT	Homo sapiens hypothetical protein DKFZp434M035 (DKFZp434M035), mRNA
3548	16592	29517	0.96	6.0E-54	AL163247.2	NT	Homo sapiens chromosome 21 segment HS21C047
4030	17068	29969	1.48	6.0E-54	4502872	NT	Homo sapiens chloride channel 6 (CLCN6) mRNA
4489	17514	30402	0.78	6.0E-54	AV754746.1	EST_HUMAN	AV754746 TP Homo sapiens cDNA clone TPGAAC10 5'
4819	17836	30734	0.94	6.0E-54	AV724885.1	EST_HUMAN	AV724885 HTB Homo sapiens cDNA clone HTBACE02 5'
4880	17897	30786	1.95	6.0E-54	4505806	NT	Homo sapiens phosphatidylinositol 4-kinase, catalytic, alpha polypeptide (PIK4CA) mRNA
4908	17926		1.23	6.0E-54	Y09846.1	NT	H. sapiens shc pseudogene, p66 isoform
5035	17926		1.27	6.0E-54	Y09846.1	NT	H. sapiens shc pseudogene, p66 isoform
11771	23926	37446	1.6	6.0E-54	11433623	NT	Homo sapiens KIAA0071 protein (KIAA0071), mRNA
11771	23926	37447	1.6	6.0E-54	11433623	NT	Homo sapiens KIAA0071 protein (KIAA0071), mRNA
2160	15176	28197	3.75	5.0E-54	P51523	SWISSPROT	ZINC FINGER PROTEIN B4 (ZINC FINGER PROTEIN HPF2)
184	13284		319.6	4.0E-54	AF110103.1	NT	Tupala belangeri beta-actin mRNA, partial cds
							EST177696 Jurkat T-cells VI Homo sapiens cDNA 5' end similar to glyceraldehyde-3-phosphate dehydrogenase
957	14010	26963	29.88	4.0E-54	AA306764.1	EST_HUMAN	Human mRNA for KIAA0077 gene, partial cds
1822	14848	27842	2.91	4.0E-54	D38521.1	NT	Human mRNA for KIAA0077 gene, partial cds
1822	14849	27843	2.91	4.0E-54	D38521.1	NT	Human mRNA for KIAA0077 gene, partial cds
3217	16272		1.03	4.0E-54	AI935086.1	EST_HUMAN	wd26d11.x1 Soares_NFL_T_OBC_S1 Homo sapiens cDNA clone IMAGE:2329269 3' similar to TR:002711
7524	20488		0.68	4.0E-54	BE544889.1	EST_HUMAN	O02711 PRO-POL-DUTPASE POLYPROTEIN ;
83	13209	26133	13.65	3.0E-54	AA313487.1	EST_HUMAN	601075004F1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3461017 5'
2632	15631		1.1	3.0E-54	AI908757.1	EST_HUMAN	EST185371 Colon carcinoma (HCC) cell line Homo sapiens cDNA 5' end
6007	18080	32290	1.52	3.0E-54	4502434	NT	IL-BT189-190399-007 BT189 Homo sapiens cDNA
7619	20579	33942	1.49	3.0E-54	AA844061.1	EST_HUMAN	Homo sapiens BMX non-receptor tyrosine kinase (BMX) mRNA
7619	20579	33943	1.49	3.0E-54	AA844061.1	EST_HUMAN	ai92c08.s1 Soares_parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:1389270 3'
8081	21018	34418	0.51	3.0E-54	AI742622.1	EST_HUMAN	ai92c08.s1 Soares_parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:1389270 3'
							wg44b11.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:2367833 3'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11363	24312		4.82	3.0E-54	11434806	NT	Homo sapiens golgi autoantigen, golgin subfamily a, 5 (GOLGA5), mRNA
11423	24367	37902	3.55	3.0E-54	BF345600.1	EST_HUMAN	602019409F1 NCL_CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4155121 5'
11696	24661	38239	2.11	3.0E-54	AA393362.1	EST_HUMAN	z70f12.1 Soares_NHT Homo sapiens cDNA clone IMAGE:72727 5' similar to TR:G191315
12334	25134	31850	4.08	3.0E-54	AW954559.1	EST_HUMAN	G191315 ANDROGEN-DEPENDENT EXPRESSED PROTEIN;
12380	25942		1.67	3.0E-54	AW748955.1	EST_HUMAN	EST368629 MAGE resequences, MAGC Homo sapiens cDNA
643	13709	26629	6.22	2.0E-54	5031900	NT	RC1-BT0313-131199-011-509 BT0313 Homo sapiens cDNA
1367	14401	27371	1.48	2.0E-54	4507164	NT	Homo sapiens killer cell lectin-like receptor subfamily G, member 1 (KLRG1), mRNA
1550	14583	27554	1.32	2.0E-54	AA655008.1	EST_HUMAN	Homo sapiens nuclear antigen Sp100 (SP100) mRNA
2546	15547	28570	1.04	2.0E-54	AW183175.1	EST_HUMAN	nt78a08.st NCL_CGAP_P73 Homo sapiens cDNA clone IMAGE:1204600 similar to contains element L1
2608	15607	28631	1.45	2.0E-54	AL163210.2	NT	repetitive element;
2905	15964	28887	1.4	2.0E-54	AW057524.1	EST_HUMAN	au2g03.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2783764 5' similar to
3559	16605		5.43	2.0E-54	AA532825.1	EST_HUMAN	SW:CUL1_HUMAN Q13616 CULLIN HOMOLOG 1;
4232	17261		1.73	2.0E-54	4502642	NT	Homo sapiens chromosome 21 segment HS21C010
4470	17496		1.18	2.0E-54	AF208161.1	NT	wy60b12.x1 Soares_NSF_F8_gW_OTLPA_P_S1 Homo sapiens cDNA clone IMAGE:2552927 3' similar to
4914	17931	30822	0.99	2.0E-54	7706446	NT	TR:Q62084 Q62084 PHOSPHOLIPASE C NEIGHBORING;
5278	18284	31147	1.07	2.0E-54	4506962	NT	nt45g08.st NCL_CGAP_P78 Homo sapiens cDNA clone IMAGE:995488 similar to gb:X53777 60S
5551	18648	31591	1.8	2.0E-54	4759069	NT	RIBOSOMAL PROTEIN L23 (HUMAN);
5684	18779	31952	1.25	2.0E-54	BE047864.1	EST_HUMAN	Homo sapiens chaperonin containing T-complex subunit 6 (CCT6) mRNA
5856	18946	32131	3.9	2.0E-54	11426657	NT	Homo sapiens syncytin precursor, mRNA, complete cds
5961	19046	32245	10.03	2.0E-54	AB046811.1	NT	Homo sapiens peptidylarginine deiminase type III (LOC51702), mRNA
5961	19046	32246	10.03	2.0E-54	AB046811.1	NT	Homo sapiens SKAP55 homologue (SKAP-HOM) mRNA
6814	19868	33157	0.77	2.0E-54	AF008915.1	NT	Homo sapiens small inducible cytokine subfamily A (Oys-Oys), member 14 (SCYA14) mRNA
6883	20206	33555	0.73	2.0E-54	AB023212.1	NT	ts3c11.y1 NCL_CGAP_Brn52 Homo sapiens cDNA clone IMAGE:2281348 5'
6883	20206	33536	0.73	2.0E-54	AB023212.1	NT	Homo sapiens KIAA0100 gene product (KIAA0100), mRNA
7330	20301	33645	7.68	2.0E-54	11426544	NT	Homo sapiens KIAA0100 protein, partial cds
9987	22914	36379	4.03	2.0E-54	AB001025.1	NT	Homo sapiens mRNA for KIAA1591 protein, partial cds
10369	23292	36768	1.61	2.0E-54	11429127	NT	Homo sapiens EVI5 homologue mRNA, complete cds
10480	23402	36899	0.88	2.0E-54	11416762	NT	Homo sapiens mRNA for KIAA0995 protein, partial cds
							Homo sapiens mRNA for KIAA0995 protein, partial cds
							Homo sapiens neurofibromin 1 (neurofibromatosis, von Recklinghausen disease, Watson disease) (NF1), mRNA
							Homo sapiens mRNA for brain ryanodine receptor, complete cds
							Homo sapiens Janus kinase 2 (a protein tyrosine kinase) (JAK2), mRNA
							Homo sapiens serologically defined colon cancer antigen 10 (SDCCAG10), mRNA

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10480	23402	36900	0.88	2.0E-54	11416762	NT	Homo sapiens serologically defined colon cancer antigen 10 (SDCCAG10), mRNA
12034	24910		4.31	2.0E-54	7657454	NT	Homo sapiens pescadillo (zebrafish) homolog 1, containing BRCT domain (PES1), mRNA
4492	17517		1.6	1.0E-54	BF315418.1	EST_HUMAN	601899230F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4128535 5'
9081	22047	35470	0.51	1.0E-54	11417222	NT	Homo sapiens similar to nuclear factor related to kappa B binding protein (H. sapiens) (LOC63182), mRNA
10815	23537	37035	0.51	1.0E-54	AA412409.1	EST_HUMAN	zu10609.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:731484 5'
10815	23537	37035	0.51	1.0E-54	AA412409.1	EST_HUMAN	zu10609.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:731484 5'
12998	25554		4.2	1.0E-54	AU077341.1	EST_HUMAN	AU077341 Sugano cDNA library Homo sapiens cDNA clone Zv6C880 similar to 5'-end region of Human gamma-glutamyl transpeptidase mRNA, 5 end
10724	23646	37139	0.95	9.0E-55	BE081499.1	EST_HUMAN	QV2-BT0635-160400-143-112 BT0635 Homo sapiens cDNA
1318	14353		0.98	8.0E-55	Y07829.2	NT	Homo sapiens RFB30 gene for RING finger protein
1321	14356		2.63	8.0E-55	Y07829.2	NT	Homo sapiens RFB30 gene for RING finger protein
11528	24469		1.73	8.0E-55	AW409714.1	EST_HUMAN	fh02a02.x1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2960907 5'
12390	25167		1.3	8.0E-55	BE327189.1	EST_HUMAN	hw08d06.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3182315 3' similar to TR:Q9Z1J8
1083	14127	27081	1.52	7.0E-55	R09346.1	EST_HUMAN	Q9Z1J8 45 KDA SECRETORY PROTEIN ; y28e04.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:127898 5' similar to SP:C561_BOVIN P10897 CYTOCHROME ;
9156	22122		1.54	7.0E-55	AW103839.1	EST_HUMAN	xt76c02.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2603522 3' similar to TR:O60365
9536	22459	35947	1.22	7.0E-55	AA89581.1	EST_HUMAN	O60365 FOS39554_1 ;
9570	22532	35982	2.15	7.0E-55	AU139909.1	EST_HUMAN	ak28a11.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1407260 3'
11544	24485	38038	8.31	7.0E-55	AI561056.1	EST_HUMAN	AU139909 PLACE1 Homo sapiens cDNA clone PLACE1011576 5'
12135	25004		1.8	7.0E-55	H48714.1	EST_HUMAN	tg29f09.x1 NCI_CGAP_U1 Homo sapiens cDNA clone IMAGE:2210249 3'
12968	25876		1.78	7.0E-55	H23396.1	EST_HUMAN	tg29f09.x1 NCI_CGAP_U1 Homo sapiens cDNA clone IMAGE:2210249 3'
11843	24726	38313	1.85	6.0E-55	AB040694.1	NT	yq78d03.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:201893 5'
1795	14814	27798	1.3	5.0E-55	AA704971.1	EST_HUMAN	ym57g07.r1 Soares infant brain 1NIB Homo sapiens cDNA clone IMAGE:52444 5'
1795	14814	27799	1.3	5.0E-55	AA704971.1	EST_HUMAN	Homo sapiens mRNA for KIAA1501 protein, partial cds
6690	19747	33023	1.65	5.0E-55	4502240	NT	z95b09.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:462617 3'
6690	19747	33024	1.65	5.0E-55	4502240	NT	z95b09.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:462617 3'
7237	20258	33592	0.69	5.0E-55	7382477	NT	Homo sapiens arylsulfatase E (chondrodysplasia punctata 1) (ARSE), mRNA
7513	20478	33839	0.68	5.0E-55	11434422	NT	Homo sapiens arylsulfatase E (chondrodysplasia punctata 1) (ARSE), mRNA
8327	21296	34711	0.74	5.0E-55	11526491	NT	Homo sapiens Rho GTPase activating protein 6 (RHGAP6), transcript variant 5, mRNA
9399	22384	35796	2.57	5.0E-55	4506302	NT	Homo sapiens speckle-type POZ protein (SPOP), mRNA
							Homo sapiens BCL2-associated athanogene (BAG1), mRNA
							Homo sapiens protein tyrosine phosphatase, receptor type, alpha polypeptide (PTPRA), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9874	22627		1.9	5.0E-55	BE064386.1	EST_HUMAN	RC4-BT0310-110300-015-f10 BT0310 Homo sapiens cDNA
10397	23319	36801	1.31	5.0E-55	AB014511.1	NT	Homo sapiens mRNA for KIAA0611 protein, partial cds
10397	23319	36802	1.31	5.0E-55	AB014511.1	NT	Homo sapiens mRNA for KIAA0611 protein, partial cds
10582	23504	36997	1.2	5.0E-55	5453765	NT	Homo sapiens nel (chicken)-like 2 (NEL2), mRNA
12419	25189		3.4	5.0E-55	11417972	NT	Homo sapiens pscadillo (zebrafish) homolog 1, containing BRCT domain (PES1), mRNA
57	15831	26088	1.49	4.0E-55	AW957994.1	EST_HUMAN	EST370064 MAGE resequences, MAGE Homo sapiens cDNA
673	13737	26664	31.1	4.0E-55	4826973	NT	Homo sapiens RNA binding motif protein, Y chromosome, family 1, member A1 (RBM1A1) mRNA
1517	14549		1.97	4.0E-55	BF061411.1	EST_HUMAN	752610.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3390043 3' similar to contains L1.13 L1 repetitive element;
2040	15059	28078	1.04	4.0E-55	4506180	NT	Homo sapiens proteasome (prosome, macropain) subunit, alpha type, 2 (PSMA2) mRNA
2040	15059	28079	1.04	4.0E-55	4506180	NT	Homo sapiens proteasome (prosome, macropain) subunit, alpha type, 2 (PSMA2) mRNA
2097	15114	28134	8.73	4.0E-55	4503314	NT	Homo sapiens diacylglycerol kinase, gamma (90kD) (DGKG) mRNA
2097	15114	28135	8.73	4.0E-55	4503314	NT	Homo sapiens diacylglycerol kinase, gamma (90kD) (DGKG) mRNA
2319	15330	28354	2.05	4.0E-55	4507794	NT	Homo sapiens ubiquitin-conjugating enzyme E2 variant 1 (UBE2V1) mRNA
2319	15330	28354	2.05	4.0E-55	4507794	NT	Homo sapiens ubiquitin-conjugating enzyme E2 variant 1 (UBE2V1) mRNA
11583	24503		2.89	4.0E-55	W28189.1	EST_HUMAN	43c5 Human retina cDNA randomly primed sublibrary Homo sapiens cDNA
12335	25135		3.64	4.0E-55	BF303941.1	EST_HUMAN	601886576F2 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4120338 5'
6751	19805	33086	0.78	3.0E-55	AA077156.1	EST_HUMAN	7B09A09 Chromosome 7 Fetal Brain cDNA Library Homo sapiens cDNA clone 7B09A09
12271	25093		1.91	3.0E-55	BE178519.1	EST_HUMAN	PM1-HT0603-090300-001-g08 HT0603 Homo sapiens cDNA
13007	25560		1.9	3.0E-55	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
377	13461	26391	2.24	2.0E-55	X67147.1	NT	Human endogenous retrovirus pHE.1 (ERV9)
553	13623		1.59	2.0E-55	M10976.1	NT	Human endogenous retroviral DNA (4-1), complete retroviral segment
650	13716	26638	3.26	2.0E-55	4507296	NT	Homo sapiens syntaxin-binding protein 1 (STXB1) mRNA, and translated products
2970	16028	28951	1.02	2.0E-55	4507798	NT	Homo sapiens ubiquitin protein ligase E3A (human papilloma virus E6-associated protein, Angelman syndrome) (UBE3A) mRNA
4808	17825	30721	2.19	2.0E-55	BE179886.1	EST_HUMAN	CM1-HT0878-150800-357-g03 HT0878 Homo sapiens cDNA
7747	25889	34087	0.69	2.0E-55	AW501988.1	EST_HUMAN	U1-HF-BNO-ike-f-06-0-U1r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078275 5'
9420	22385	35823	0.51	2.0E-55	BF224452.1	EST_HUMAN	h76h08.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3134463 3'
9420	22385	35824	0.51	2.0E-55	BF224452.1	EST_HUMAN	h76h08.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3134463 3'
9515	22478		6.16	2.0E-55	A1002836.1	EST_HUMAN	am98h05.s1 Stralagene schizo brain S11 Homo sapiens cDNA clone IMAGE:1884185 3' similar to contains THR b2 THR repetitive element;
9596	22558		0.78	2.0E-55	BE007969.1	EST_HUMAN	QV6-BN0147-280400-213-g06 BN0147 Homo sapiens cDNA
10907	23529	37024	0.43	2.0E-55	A1439401.1	EST_HUMAN	g03h08.x1 NCI_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2140479 3'
11298	24246	37773	1.84	2.0E-55	AU119344.1	EST_HUMAN	AU119344 HEMBA1 Homo sapiens cDNA clone HEMBA1005583 5'

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12113	24983	38584	1.51	2.0E-55	BE886059.1	EST_HUMAN	601507718F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3909076 5'
98	13212	26136	2.4	1.0E-55	4505060	NT	Homo sapiens mannose-6-phosphate receptor (cation dependent) (M6PR) mRNA
191	13292	26218	93.01	1.0E-55	U09823.1	NT	Oryctolagus cuniculus New Zealand white elongation factor 1 alpha (Rabefia2) mRNA, complete cds
576	13645	26558	0.75	1.0E-55	AI029718.1	EST_HUMAN	ov85g09.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1644160 3'
1152	14184	27148	4.22	1.0E-55	AB020710.1	NT	Homo sapiens mRNA for KIAA0903 protein, partial cds
1967	14988	27690	1.65	1.0E-55	BE277861.1	EST_HUMAN	601120116F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2967027 5'
1967	14988	27691	1.65	1.0E-55	BE277861.1	EST_HUMAN	601120116F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2967027 5'
2333	15344		3.95	1.0E-55	5803174	NT	Homo sapiens SMA3 (SMA3), mRNA
2345	15824	28376	1.31	1.0E-55	AF000990.1	NT	Homo sapiens testis-specific Testis Transcript Y 1 (TTY1) mRNA, partial cds
2524	15527	28548	52.04	1.0E-55	X13111.1	NT	Human mRNA for HLA-A11E, a MHC class I molecule (major histocompatibility complex)
2561	15582	28580	4.62	1.0E-55	AB007866.2	NT	Homo sapiens mRNA for KIAA0408 protein, partial cds
2581	15562	28581	4.62	1.0E-55	AB007866.2	NT	Homo sapiens mRNA for KIAA0408 protein, partial cds
2619	15617	28641	4.76	1.0E-55	L54057.1	NT	Homo sapiens CLP mRNA, partial cds
2801	15793	28811	0.98	1.0E-55	AB033045.1	NT	Homo sapiens mRNA for KIAA1219 protein, partial cds
3420	16488	29388	0.98	1.0E-55	W28189.1	EST_HUMAN	43c5 Human retina cDNA randomly primed sublibrary Homo sapiens cDNA
4015	17084	29955	4.23	1.0E-55	AL163267.2	NT	Homo sapiens chromosome 21 segment HS21C067
4323	17352	30238	1.08	1.0E-55	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
4762	17782		1.21	1.0E-55	N77261.1	EST_HUMAN	y44g03.r1 Soares fetal liver spleen 1NLS Homo sapiens cDNA clone IMAGE:245620 5'
4865	17882	30769	1.79	1.0E-55	AB037163.1	NT	Homo sapiens DSCR5b mRNA, complete cds
4865	17882	30770	1.79	1.0E-55	AB037163.1	NT	Homo sapiens DSCR5b mRNA, complete cds
5177	18186	31063	1.3	1.0E-55	8923125	NT	Homo sapiens hypothetical protein FLJ20126 (FLJ20126), mRNA
5575	18671	31634	0.56	1.0E-55	AF119856.1	NT	Homo sapiens PRO1851 mRNA, complete cds
6402	19470	32718	7	1.0E-55	11433046	NT	Homo sapiens hect domain and RLD 2 (HERC2), mRNA
6402	19470	32719	7	1.0E-55	11433046	NT	Homo sapiens hect domain and RLD 2 (HERC2), mRNA
7282	20016		0.66	1.0E-55	AF199420.1	NT	Homo sapiens F-box protein FBL4 (FBL4) mRNA, complete cds
8321	21290	34704	1.25	1.0E-55	11432994	NT	Homo sapiens discs, large (Drosophila) homolog 2 (chapsyn-110) (DLG2), mRNA
8321	21290	34705	1.25	1.0E-55	11432994	NT	Homo sapiens discs, large (Drosophila) homolog 2 (chapsyn-110) (DLG2), mRNA
8410	21379	34765	0.49	1.0E-55	11421649	NT	Homo sapiens SKAP65 homologue (SKAP-HOM), mRNA
8418	21379	34766	1.27	1.0E-55	AF224492.1	NT	Homo sapiens phospholipid scramblase 1 gene, complete cds
8418	21387	34797	1.27	1.0E-55	AF224492.1	NT	Homo sapiens phospholipid scramblase 1 gene, complete cds
11776	23931	37452	1.65	1.0E-55	U50950.1	NT	Human infant brain unknown product mRNA, complete cds
11795	23950	37471	1.58	1.0E-55	T10045.1	EST_HUMAN	seq1575 b4HB3MA Cdx8-HAP-Ft Homo sapiens cDNA clone b4HB3MA-COT8-HAP-Ft61 5' similar to similar to Chinese Hamster DHFR-coamplified protein mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Database Source	Top Hit Descriptor
11902	24783	38371	1.74	1.0E-55	NT	Homo sapiens DNA-binding protein (LOC56242), mRNA
7590	20551	33912	1.89	9.0E-56	EST_HUMAN	601237702F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3609552 5'
2743	15737	28753	6.5	7.0E-56	EST_HUMAN	Yn62g03.r1 Soares adult brain N2b5HB55Y Homo sapiens cDNA clone IMAGE:173044 5' similar to contains THR repetitive element:
7902	20845	34228	2.13	7.0E-56	EST_HUMAN	RC1-CT0252-231099-013-b07 CT0252 Homo sapiens cDNA
7902	20845	34230	2.13	7.0E-56	EST_HUMAN	RC1-CT0252-231099-013-b07 CT0252 Homo sapiens cDNA
1701	14731	27713	1.99	5.0E-56	EST_HUMAN	RC3-BN0063-170200-011-h01 BN0063 Homo sapiens cDNA
9516	22479	35923	0.61	5.0E-56	EST_HUMAN	U1H-B10p-eau-a-05-0.U1.s1 NCI_CGAP_Sub2 Homo sapiens cDNA clone IMAGE:2710544 3'
10754	23676		1.7	5.0E-56	EST_HUMAN	43c-5 Human retina cDNA randomly primed sublibrary Homo sapiens cDNA
12507	25930	31309	5.41	5.0E-56	EST_HUMAN	CHR220038 Chromosome 22 exon Homo sapiens cDNA clone C22_55 5'
30	13150	26049	12.5	4.0E-56	NT	Homo sapiens beta-tubulin mRNA, complete cds
30	13150	26050	12.5	4.0E-56	NT	Homo sapiens beta-tubulin mRNA, complete cds
2719	15713	28730	4.9	4.0E-56	NT	Homo sapiens tubulin, beta polypeptide (TUBB) mRNA
2719	15713	28731	4.9	4.0E-56	NT	Homo sapiens tubulin, beta polypeptide (TUBB) mRNA
						Homo sapiens X-linked anhidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
2823	13598	26516	3.69	4.0E-56	NT	
2843	18620	28644	1.16	4.0E-56	EST_HUMAN	wb09f08.x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2305191 3' similar to SW:DCOR_MUSPA
2843	18620	28644	1.16	4.0E-56	EST_HUMAN	P27119 ORNITHINE DECARBOXYLASE ;
2843	18620	28644	1.16	4.0E-56	EST_HUMAN	wb09f08.x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2305191 3' similar to SW:DCOR_MUSPA
2843	18620	28644	1.16	4.0E-56	EST_HUMAN	P27119 ORNITHINE DECARBOXYLASE ;
6387	19455	32700	5.85	4.0E-56	NT	Homo sapiens uncharacterized bone marrow protein BM031 mRNA, complete cds
6387	19455	32701	5.85	4.0E-56	NT	Homo sapiens uncharacterized bone marrow protein BM031 mRNA, complete cds
10872	23792	37293	3.94	4.0E-56	NT	Homo sapiens lymphocyte-specific protein 1 (LSP1) gene, LSP1-7 allele, partial cds
11268	24220	37743	7.82	4.0E-56	EST_HUMAN	trn65g12.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2163046 3'
11268	24220	37744	7.82	4.0E-56	EST_HUMAN	trn65g12.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2163046 3'
1345	14380	27349	1.74	3.0E-56	NT	Homo sapiens hypothetical protein PRO1304 (PRO1304), mRNA
1779	14808	27784	0.99	3.0E-56	NT	Homo sapiens 5'-3' exoribonuclease 2 (XRN2), mRNA
3142	16199	28709	1.83	3.0E-56	EST_HUMAN	EST28889 Cerebellum II Homo sapiens cDNA 5' end
3142	16199	29110	1.83	3.0E-56	EST_HUMAN	EST28889 Cerebellum II Homo sapiens cDNA 5' end
3847	16887		1.73	3.0E-56	NT	Homo sapiens MHC class 1 region
3938	16978	29893	1.1	3.0E-56	EST_HUMAN	601310203F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3631848 5'
4454	17480	30368	4.84	3.0E-56	NT	Homo sapiens chromosome 21 segment HS21C088
4803	17624	30517	2.34	3.0E-56	NT	Homo sapiens superkiller viral-like activity 2 (S. cervisiae homolog)-like (SKIV2L), mRNA
4841	17858		1.81	3.0E-56	EST_HUMAN	601438154F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3923100 5'

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5787	18859	32038	1.64	3.0E-56	4759183	NT	Homo sapiens sper/osteoneclin, cwev and kazal-like domains proteoglycan (testican) (SPOCK) mRNA
5787	18859	32039	1.84	3.0E-56	4759183	NT	Homo sapiens sper/osteoneclin, cwev and kazal-like domains proteoglycan (testican) (SPOCK) mRNA
7058	20080	33389	5.05	3.0E-56	11421124	NT	Homo sapiens lysosomal-associated membrane protein 2 (LAMP2), mRNA
9188	22134	35560	5	3.0E-56	11418704	NT	Homo sapiens bone morphogenetic protein 5 (BMP5), mRNA
10172	23097	35577	1.12	3.0E-56	D63479.2	NT	Homo sapiens mRNA for KIAA0145 protein, partial cds
10848	23786	37265	1.93	3.0E-56	11434956	NT	Homo sapiens KIAA0317 gene product (KIAA0317), mRNA
11843	24580	38147	4.57	3.0E-56	5902013	NT	Homo sapiens nuclear pore complex interacting protein (NPIP), mRNA
11843	24580	38148	4.57	3.0E-56	5902013	NT	Homo sapiens nuclear pore complex interacting protein (NPIP), mRNA
11983	24880	38455	7.15	3.0E-56	U46900.1	NT	Homo sapiens NACP/alpha-synuclein gene, exon 5
11983	24880	38456	7.15	3.0E-56	U46900.1	NT	Homo sapiens NACP/alpha-synuclein gene, exon 5
12378	25160	31812	2.99	3.0E-56	11434878	NT	Homo sapiens caveolin 3 (CAV3), mRNA
12378	25160	31813	2.99	3.0E-56	11434878	NT	Homo sapiens caveolin 3 (CAV3), mRNA
525	13598		1.92	2.0E-56	AA199818.1	EST_HUMAN	zq52a08.s1 Stratiogene neuroepithelium (#937231) Homo sapiens cDNA clone IMAGE:645208 3'
734	15848	28732	2.02	2.0E-56	BE064386.1	EST_HUMAN	RC4-BT0310-110300-015-f10 BT0310 Homo sapiens cDNA
734	15848	28733	2.02	2.0E-56	BE064386.1	EST_HUMAN	RC4-BT0310-110300-015-f10 BT0310 Homo sapiens cDNA
2392	15400	28425	1.22	2.0E-56	M26061.1	NT	Human cGMP phosphodiesterase alpha subunit (CGPR-A) mRNA, complete cds
2392	15400	28426	1.22	2.0E-56	M26061.1	NT	Human cGMP phosphodiesterase alpha subunit (CGPR-A) mRNA, complete cds
3001	16059	28978	1.52	2.0E-56	AB037835.1	NT	Homo sapiens mRNA for KIAA1414 protein, partial cds
3327	16378		1.71	2.0E-56	AB008681.1	NT	Homo sapiens gene for activin receptor type IB, complete cds
3544	16580	29515	1.18	2.0E-56	AV703184.1	EST_HUMAN	AV703184 ADB Homo sapiens cDNA clone ADBCFG10 5'
7297	20269	33604	1.24	2.0E-56	5730038	NT	Homo sapiens SET domain and mariner transposase fusion gene (SETMAR) mRNA
881	14032		1.28	1.0E-56	AF190930.1	NT	Macaca fascicularis protein tyrosine phosphatase (PRL-1) mRNA, complete cds
3688	16731	29842	2.08	1.0E-56	AW589833.1	EST_HUMAN	hg23c11.x1 NCL CGAP_GC8 Homo sapiens cDNA clone IMAGE:2948452 3'
3688	16731	29843	2.08	1.0E-56	AW589833.1	EST_HUMAN	hg23c11.x1 NCL CGAP_GC8 Homo sapiens cDNA clone IMAGE:2948452 3'
5071	18081	30982	1.22	1.0E-56	AI905162.1	EST_HUMAN	QV-BT077-130199-079 BT077 Homo sapiens cDNA
6995	20121	33435	0.56	1.0E-56	AW609520.1	EST_HUMAN	MR3-ST0203-180100-208-h02 ST0203 Homo sapiens cDNA
10315	23239		0.61	1.0E-56	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
10408	23330	38815	1.82	1.0E-56	AW845987.1	EST_HUMAN	RC2-CT0163-220989-001-E02 CT0163 Homo sapiens cDNA
926	13691		2.17	9.0E-57	AW880855.1	EST_HUMAN	QV0-OT0033-070300-152-h03 OT0033 Homo sapiens cDNA
11554	24494	38050	1.51	9.0E-57	AF228497.1	NT	Homo sapiens serine protease 17 (KLK4) gene, complete cds
11554	24494	38051	1.51	9.0E-57	AF228497.1	NT	Homo sapiens serine protease 17 (KLK4) gene, complete cds
11850	24733	38320	2.23	9.0E-57	AB020981.1	NT	Homo sapiens mRNA for cyclin B2, complete cds

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14	13134	26032	1.11	8.0E-57	8923349	NT	Homo sapiens hypothetical protein FLJ20371 (FLJ20371), mRNA
297	13391	26319	3.14	8.0E-57	AW816405.1	EST_HUMAN	QV4-ST0234-181199-037-05 ST0234 Homo sapiens cDNA
885	13940	26898	9.74	8.0E-57	AW264599.1	EST_HUMAN	xd5d10.x1 NCI_CGAP_Bm53 Homo sapiens cDNA clone IMAGE:2758251 3' similar to gb:U05875
1833	14860	27858	2.19	8.0E-57	AA496109.1	EST_HUMAN	INTERFERON-GAMMA RECEPTOR BETA CHAIN PRECURSOR (HUMAN);
4946	17962	30852	1.11	8.0E-57	4557630	NT	z151b12.1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:757151 5'
5073	18083	30985	1.32	8.0E-57	BE298916.1	EST_HUMAN	Homo sapiens glutamate receptor, ionotropic, AMPA 4 (GRIK4) mRNA
5312	25849	31435	1.69	8.0E-57	11418185	NT	600844440F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2860864 5'
6539	19601	32863	0.54	8.0E-57	AB020705.1	NT	Homo sapiens aconitase 2, mitochondrial (ACO2), mRNA
6808	19666	32941	12.65	8.0E-57	AB023177.1	NT	Homo sapiens mRNA for KIAA0960 protein, partial cds
6808	19666	32942	12.65	8.0E-57	AB023177.1	NT	Homo sapiens mRNA for KIAA0960 protein, partial cds
7682	20840	34003	0.71	8.0E-57	7662263	NT	Homo sapiens KIAA0716 gene product (KIAA0716), mRNA
8024	20961	34357	2.69	8.0E-57	AB020644.1	NT	Homo sapiens mRNA for KIAA0837 protein, partial cds
8024	20961	34358	2.69	8.0E-57	AB020644.1	NT	Homo sapiens mRNA for KIAA0837 protein, partial cds
10848	23768	37267	0.44	8.0E-57	11428710	NT	Homo sapiens paired box gene 5 (B-cell lineage specific activator protein) (PAX5), mRNA
11807	13134	26032	2.8	8.0E-57	8923349	NT	Homo sapiens hypothetical protein FLJ20371 (FLJ20371), mRNA
12088	24960	38557	1.67	8.0E-57	11431260	NT	Homo sapiens Ras suppressor protein 1 (RSU1), mRNA
12733	25386	31751	3.29	8.0E-57	11545732	NT	Homo sapiens SH3-domain binding protein 1 (SH3BP1), mRNA
12749	25386	31751	1.39	8.0E-57	11545732	NT	Homo sapiens SH3-domain binding protein 1 (SH3BP1), mRNA
3263	16317	29237	1.09	7.0E-57	7242158	NT	Homo sapiens NME7 (NME7), mRNA
3263	16317	29238	1.09	7.0E-57	7242158	NT	Homo sapiens NME7 (NME7), mRNA
3284	16338	29258	0.65	7.0E-57	6005979	NT	Homo sapiens Kruppel-like factor 8 (KLF8), mRNA
3891	16931	29840	2.63	7.0E-57	AF012872.1	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (p14K230) mRNA, complete cds
3891	16931	29841	2.63	7.0E-57	AF012872.1	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (p14K230) mRNA, complete cds
4816	17833	30731	1.03	7.0E-57	U11058.2	NT	Homo sapiens large conductance calcium- and voltage-dependent potassium channel alpha subunit (Maxik) mRNA, complete cds
13075	25884		3.96	5.0E-57	AJ271735.1	NT	Homo sapiens Xq pseudautosomal region; segment 1/2
3766	16808	29718	2.12	4.0E-57	AB026898.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
805	13963	26813	0.93	3.0E-57	4507798	NT	Homo sapiens ubiquitin protein ligase E3A (human papilloma virus E6-associated protein, Angelman syndrome) (UBE3A) mRNA
1334	14368		58.49	3.0E-57	AA230279.1	EST_HUMAN	nc13107.s1 NCI_CGAP_P1 Homo sapiens cDNA clone IMAGE:1008037 similar to SW:RS10_HUMAN
2400	15407	28431	0.95	3.0E-57	AA348335.1	EST_HUMAN	P46783 40S RIBOSOMAL PROTEIN S10. ; EST54770 Hippocampus II Homo sapiens cDNA 5' end

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Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2714	15708	28724	1.19	3.0E-57	BE676622.1	EST_HUMAN	733b10.x1 NCI_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:3296443 3' similar to WP:Y47H9C.2 CE20263.1
2714	15708	28725	1.19	3.0E-57	BE676622.1	EST_HUMAN	733b10.x1 NCI_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:3296443 3' similar to WP:Y47H9C.2 CE20263.1
3711	16764		26.47	3.0E-57	AW853964.1	EST_HUMAN	RC3-CT0254-110300-027-d10 CT0254 Homo sapiens cDNA
6145	19220	32450	1.37	3.0E-57	11225608	NT	Homo sapiens angiotensin I converting enzyme (peptidyl-dipeptidase A) 2 (ACE2), mRNA
6248	18319	32649	3.49	3.0E-57	BE796537.1	EST_HUMAN	601589806F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3944302 5'
8484	21452	34870	2.61	3.0E-57	W28130.1	EST_HUMAN	42f6 Human retina cDNA randomly primed sublibrary Homo sapiens cDNA
8510	21478	34891	1.9	3.0E-57	11545798	NT	Homo sapiens hypothetical protein FLJ11656 (FLJ11656), mRNA
8510	21478	34892	1.9	3.0E-57	11545798	NT	Homo sapiens hypothetical protein FLJ11656 (FLJ11656), mRNA
8624	21592	35011	0.56	3.0E-57	11427757	NT	Homo sapiens KIAA0649 gene product (KIAA0649), mRNA
8772	21739	35160	0.86	3.0E-57	J05262.1	NT	Human farnesyl pyrophosphate synthetase mRNA, complete cds
9210	22176	35608	4.85	3.0E-57	AU117659	EST_HUMAN	AU117659 HEMBA1 Homo sapiens cDNA clone HEMBA1001910 5'
9605	22609	36060	0.7	3.0E-57	11545798	NT	Homo sapiens hypothetical protein FLJ11656 (FLJ11656), mRNA
9605	22609	36061	0.7	3.0E-57	11545798	NT	Homo sapiens hypothetical protein FLJ11656 (FLJ11656), mRNA
11264	24207	37729	2.96	3.0E-57	AW248374.1	EST_HUMAN	2820473.Sprime NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2820473 5'
12384	25951	31314	7.53	3.0E-57	W23871.1	EST_HUMAN	zb45d11.r1 Soares_fetal_lung_NbHL10W Homo sapiens cDNA clone IMAGE:306549 5'
1500	14533	27504	1.05	2.0E-57	AF248219.1	NT	Homo sapiens SNARE protein kinase SNARE mRNA, complete cds
1500	14533	27505	1.05	2.0E-57	AF248219.1	NT	Homo sapiens SNARE protein kinase SNARE mRNA, complete cds
3452	16498		2.19	2.0E-57	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
3562	16608	29529	0.65	2.0E-57	R07702.1	EST_HUMAN	ye88h01.r1 Soares fetal liver spleen 1N1FLS Homo sapiens cDNA clone IMAGE:125809 5'
3562	16608	29530	0.65	2.0E-57	R07702.1	EST_HUMAN	ye88h01.r1 Soares fetal liver spleen 1N1FLS Homo sapiens cDNA clone IMAGE:125809 5'
3951	16991	29907	0.86	2.0E-57	BE073264.1	EST_HUMAN	MRO-BT0551-060300-103-b03 BT0551 Homo sapiens cDNA
4538	17561	30448	6.69	2.0E-57	AL163283.2	NT	Homo sapiens chromosome 21 segment HS21C083
5139	18148	31027	1.74	2.0E-57	AL163206.2	NT	Homo sapiens chromosome 21 segment HS21C006
							ze31c05.r1 Soares retina N2b4HR Homo sapiens cDNA clone IMAGE:380584 5' similar to contains L1.13 L1
5751	18845		1.67	2.0E-57	AA016131.1	EST_HUMAN	repetitive element;
6150	19225		32.23	2.0E-57	BF115266.1	EST_HUMAN	7n80r04.x1 NCI_CGAP_Ov18 Homo sapiens cDNA clone IMAGE:3570566 3' similar to contains TAR1.11 MER22 repetitive element;
6283	19355	32591	0.7	2.0E-57	11431281	NT	Homo sapiens small inducible cytokine subfamily A (Cys-Cys), member 22 (SCYA22), mRNA
8978	21944	35368	1.02	2.0E-57	AF045452.1	NT	Homo sapiens cell-line KG1 transcriptional regulatory protein p54 mRNA, complete cds
10205	23130	36617	1.63	2.0E-57	AF057722.1	NT	Homo sapiens 17-beta-hydroxysteroid dehydrogenase IV (HSD17B4) gene, exons 3 and 4
11601	24539	38097	1.88	2.0E-57	11424084	NT	Homo sapiens hypothetical protein FLJ20041 (FLJ20041), mRNA
11601	24539	38098	1.88	2.0E-57	11424084	NT	Homo sapiens hypothetical protein FLJ20041 (FLJ20041), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11642	24579	38145	1.74	2.0E-57	AJ245603.1	NT	Homo sapiens partial mRNA for PEX5 related protein
11642	24579	38148	1.74	2.0E-57	AJ245603.1	NT	Homo sapiens partial mRNA for PEX5 related protein
2240	15264	28278	1.49	1.0E-57	AW503208.1	EST_HUMAN	UI-HF-BNO-ak-g-07-0-UI.1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078348 5'
9041	22007		4.47	1.0E-57	BE043031.1	EST_HUMAN	h032a08.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3039062 3' similar to TR:O00248 O00246 HYPOTHETICAL 9.3 KD PROTEIN;
12537	25281		3.65	1.0E-57	AW470791.1	EST_HUMAN	h033d06.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2875499 3' similar to contains THR.b3 THR repetitive element;
5760	18853	32033	1.01	9.0E-58	AA297847.1	EST_HUMAN	EST11348 Uterus Homo sapiens cDNA 5' end
12785	25424	31738	2.37	9.0E-58	BE395061.1	EST_HUMAN	601309465F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3631000 5'
591	13658		2.43	8.0E-58	BE868715.1	EST_HUMAN	601445948F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3850211 5'
655	13721	26844	2.84	8.0E-58	AI798376.1	EST_HUMAN	tf34b07.x1 NCI_CGAP_Ov23 Homo sapiens cDNA clone IMAGE:2220181 3' similar to TR:O15475 O15475 UNNAMED HERV-H PROTEIN;
655	13721	26845	2.84	8.0E-58	AI798376.1	EST_HUMAN	tf34b07.x1 NCI_CGAP_Ov23 Homo sapiens cDNA clone IMAGE:2220181 3' similar to TR:O15475 O15475 UNNAMED HERV-H PROTEIN;
1874	14899	27897	1.98	8.0E-58	11434921	NT	Homo sapiens putative protein O-mannosyltransferase (POMT2), mRNA
1874	14899	27898	1.98	8.0E-58	11434921	NT	Homo sapiens putative protein O-mannosyltransferase (POMT2), mRNA
2987	16045		2.65	8.0E-58	7706132	NT	Homo sapiens DHHC1 protein (LOC51304), mRNA
7449	20415	33769	0.95	7.0E-58	BE561971.1	EST_HUMAN	601346704F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3887577 5'
11203	24157		4.96	7.0E-58	5174542	NT	Homo sapiens MADS box transcription enhancer factor 2, polypeptide B (myocyte enhancer factor 2B) (MEF2B), mRNA
11275	24227	37753	2.79	7.0E-58	AW504109.1	EST_HUMAN	UI-HF-BNO-ali-g-10-0-UI.1 NIH_MGC:50 Homo sapiens cDNA clone IMAGE:3079887 5'
11275	24227	37754	2.79	7.0E-58	AW504109.1	EST_HUMAN	UI-HF-BNO-ali-g-10-0-UI.1 NIH_MGC:50 Homo sapiens cDNA clone IMAGE:3079887 5'
2385	15393	28419	4.05	6.0E-58	AU130689.1	EST_HUMAN	AU130689 NT2RP3 Homo sapiens cDNA clone NT2RP3001263 5'
2912	15970	28893	1.62	6.0E-58	BE242150.1	EST_HUMAN	TCAAP1E1219 Pediatric acute myelogenous leukemia cell (FAB M1) Baylor-HGSC project=TCAA Homo sapiens cDNA clone TCAAP1219
2912	15970	28894	1.62	6.0E-58	BE242150.1	EST_HUMAN	TCAAP1E1219 Pediatric acute myelogenous leukemia cell (FAB M1) Baylor-HGSC project=TCAA Homo sapiens cDNA clone TCAAP1219
6294	19366	32605	1.16	6.0E-58	AF106911.1	NT	Homo sapiens chemokine MIP-2 gamma (MIP-2 gamma) mRNA, complete cds
10672	23594	37091	1.02	6.0E-58	11434748	NT	Homo sapiens protein tyrosine phosphatase, non-receptor type 21 (PTPN21), mRNA
12629	23318		1.41	6.0E-58	11526291	NT	Homo sapiens hypothetical protein FLJ20454 (FLJ20454), mRNA
300	13394	26321	4.35	5.0E-58	4507334	NT	Homo sapiens synaptotagmin 1 (SYNJ1), mRNA
711	13773	26707	7.63	5.0E-58	BE763984.1	EST_HUMAN	RC4-NT0057-160600-016-b05 NT0057 Homo sapiens cDNA
1199	14239	27195	3.77	5.0E-58	AW797948.1	EST_HUMAN	GM3-UM0043-240300-127-e07 UM0043 Homo sapiens cDNA
1199	14239	27196	3.77	5.0E-58	AW797948.1	EST_HUMAN	GM3-UM0043-240300-127-e07 UM0043 Homo sapiens cDNA

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Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1200	14239	27195	3.1	5.0E-58	AW797948.1	EST_HUMAN	CM3-UM0043-240300-127-607 UM0043 Homo sapiens cDNA
1200	14239	27196	3.1	5.0E-58	AW797948.1	EST_HUMAN	CM3-UM0043-240300-127-607 UM0043 Homo sapiens cDNA
3334	16365	28306	3.85	5.0E-58	AA988183.1	EST_HUMAN	cr88e07.s1 NCI_CGAP_Lus Homo sapiens cDNA clone IMAGE:1603908 3'
4287	17316	30195	0.95	5.0E-58	AI639745.1	EST_HUMAN	ts88e07.x1 NCI_CGAP_GC8 Homo sapiens cDNA clone IMAGE:2238468 3' similar to SW:PRO2_ACACA P16984 PROFILIN II.
5710	18804		2.2	5.0E-58	11496282	NT	Homo sapiens placenta-specific 1 (PLACT1), mRNA
6302	19373	32612	5.97	5.0E-58	H23072.1	EST_HUMAN	ym51h07.r1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:52071 5'
6534	19587	32860	0.94	5.0E-58	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
6615	19673	32951	1.16	5.0E-58	11421330	NT	Homo sapiens apical protein, Xenopus laevis-like (APXL), mRNA
6945	20169	33492	0.7	5.0E-58	AF051334.1	NT	Homo sapiens nibrin (NBS) mRNA, complete cds
6945	20169	33493	0.7	5.0E-58	AF051334.1	NT	Homo sapiens nibrin (NBS) mRNA, complete cds
7313	20284	33625	0.8	5.0E-58	4885400	NT	Homo sapiens holochochrome c synthase (cytochrome c heme-lyase) (HCCS) mRNA
8302	21271	34693	7.52	5.0E-58	8922683	NT	Homo sapiens hypothetical protein FLJ10828 (FLJ10828), mRNA
8698	21664	35088	0.76	5.0E-58	AB046837.1	NT	Homo sapiens mRNA for KIAA1617 protein, partial cds
9695	22648	36103	1.34	5.0E-58	5231227	NT	Homo sapiens ribonuclease B precursor (RNASEBPL) mRNA
9695	22648	36104	1.34	5.0E-58	5231227	NT	Homo sapiens ribonuclease B precursor (RNASEBPL) mRNA
10216	23141	36626	1.01	5.0E-58	11430647	NT	Homo sapiens pre-mRNA splicing factor similar to S. cerevisiae Psp18 (PRP18), mRNA
10482	23404	36801	1.68	5.0E-58	AL163218.2	NT	Homo sapiens chromosome 21 segment HS21C018
10766	23687	37183	0.51	5.0E-58	AB014511.1	NT	Homo sapiens mRNA for KIAA0611 protein, partial cds
10766	23687	37184	0.51	5.0E-58	AB014511.1	NT	Homo sapiens mRNA for KIAA0611 protein, partial cds
12352	25878		2.17	5.0E-58	11526293	NT	Homo sapiens cat eye syndrome chromosome region, candidate 1 (CECR1), mRNA
12791	25904		1.48	5.0E-58	11428423	NT	Homo sapiens acetyl-Coenzyme A carboxylase alpha (ACACA), mRNA
13015	25665		2.08	5.0E-58	11418177	NT	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
373	13459	26388	1.85	4.0E-58	4502302	NT	Homo sapiens ATP synthase, H+ transporting, mitochondrial F1 complex, O subunit (oligomycin sensitivity conferring protein) (ATP8O) mRNA
797	13856	26803	1.42	4.0E-58	4504634	NT	Homo sapiens interleukin 10 receptor, beta (IL10RB), mRNA
1464	14497	27471	1.14	4.0E-58	4503648	NT	Homo sapiens coagulation factor IX (plasma thromboplastic component, Christmas disease, hemophilia B) (F9) mRNA
2639	15638	28681	2.02	4.0E-58	U36251.1	NT	Human beta-prime-adaplin (BAM22) gene, exon 3
3338	16387	29308	1.11	4.0E-58	D16470.1	NT	Human mRNA, Xq terminal portion
3753	16795	28708	1.02	4.0E-58	5031660	NT	Homo sapiens EGF-like repeats and discoidin-like domains 3 (EDIL3), mRNA
8120	21057	34454	0.69	4.0E-58	BE463857.1	EST_HUMAN	hy18a02.x1 NCI_CGAP_GC8 Homo sapiens cDNA clone IMAGE:3197842 3'
11671	24607	38184	7.52	4.0E-58	11424059	NT	Homo sapiens E1B-55kDa-associated protein 5 (E1B-AP5), mRNA
335	13424		0.84	3.0E-58	R17879.1	EST_HUMAN	yg10e02.r1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:31693 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1390	14424	27393	2.32	3.0E-58	4758981	NT	Homo sapiens peptide YY (PYY) mRNA
3193	16248	29165	2.57	3.0E-58	BF569848.1	EST_HUMAN	602185789F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4309943 5'
3193	16248	29168	2.57	3.0E-58	BF569848.1	EST_HUMAN	602185789F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4309943 5'
6390	19458	32703	0.61	3.0E-58	BE089509.1	EST_HUMAN	QV0-BT0702-170400-194-109 BT0702 Homo sapiens cDNA
6587	19647	32916	0.79	3.0E-58	F07056.1	EST_HUMAN	HSC1TG081 normalized infant brain cDNA Homo sapiens cDNA clone c-11g08
6797	19851	33136	3.92	3.0E-58	AV712977.1	EST_HUMAN	AV712977 DCA Homo sapiens cDNA clone DCAAZG04 5'
939	13992	26944	8.85	2.0E-58	AF066624.1	NT	Homo sapiens 5-aminolevulinic synthase 2 (ALAS2) gene, complete cds
							ba08b07.v1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823733 5' similar to gb:X69391.60S
1294	14329		8.41	2.0E-58	BE209532.1	EST_HUMAN	RIBOSOMAL PROTEIN L6 (HUMAN); gb:X81987 M.musculus mRNA for TAX responsive element binding protein (MOUSE);
5409	18512	31390	0.75	2.0E-58	AW074831.1	EST_HUMAN	xa08a09.x1 Soares NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2567704 3'
5431	25638	31413	3.25	2.0E-58	BE907186.1	EST_HUMAN	601499961F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3901911 5'
5431	25638	31441	3.25	2.0E-58	BE907186.1	EST_HUMAN	601499961F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3901911 5'
6175	19250	32483	1.09	2.0E-58	BF513488.1	EST_HUMAN	UI-H-BW1-ams-g-11-0-UI.st NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3071060 3'
							am57e02.x1 Johnston frontal cortex Homo sapiens cDNA clone IMAGE:1539874 3' similar to WP:ZK928.1
6244	19317	32547	1.85	2.0E-58	A124874.1	EST_HUMAN	CE05065 UBIQUITIN CONJUGATING ENZYME; RECOVERIN SUBFAMILY OF EF-HAND CALCIUM BINDING PROTEIN;
6278	19350	32584	0.83	2.0E-58	R92597.1	EST_HUMAN	ya08h06.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:196379 5'
7112	20046	33348	0.83	2.0E-58	A291407.1	EST_HUMAN	qm84c01.x1 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1895424 3'
7364	20334	33683	2.68	2.0E-58	AF134838.1	NT	Homo sapiens endocytic receptor Endo180 (ENDO180) mRNA, complete cds
7364	20334	33684	2.68	2.0E-58	AF134838.1	NT	Homo sapiens endocytic receptor Endo180 (ENDO180) mRNA, complete cds
11093	24053	37576	18.24	2.0E-58	BF307745.1	EST_HUMAN	601890812F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4131891 5'
11312	24282	37788	1.48	2.0E-58	AW872841.1	EST_HUMAN	hm25f08.x1 NCI_CGAP_Thy4 Homo sapiens cDNA clone IMAGE:3013671 3'
723	13785	26719	0.68	1.0E-58	M65134.1	NT	Human complement component C5 mRNA, 3'end
1069	14114	27064	5.86	1.0E-58	6274549	NT	Homo sapiens NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 9 (22kD, B22) (NDUFB9), mRNA
1330	14365	27333	2.03	1.0E-58	AW957182.1	EST_HUMAN	EST369252 IMAGE resequences; MAGD Homo sapiens cDNA
1330	14365	27334	2.03	1.0E-58	AW957182.1	EST_HUMAN	EST369252 IMAGE resequences; MAGD Homo sapiens cDNA
1397	14431	27400	0.98	1.0E-58	AJ238093.1	NT	Homo sapiens partial AF-4 gene, exons 2 to 7 and Alu repeat elements
1672	14704	27881	0.95	1.0E-58	BE469132.1	EST_HUMAN	hy1f08.x1 NCI_CGAP_G08 Homo sapiens cDNA clone IMAGE:3166835 3'
2814	15806	28825	1.21	1.0E-58	4759169	NT	Homo sapiens sterol regulatory element binding transcription factor 2 (SREBF2) mRNA
3548	16594	29520	1.19	1.0E-58	4758081	NT	Homo sapiens chondroitin sulfate proteoglycan 2 (versican) (CSPG2) mRNA
3548	16594	29521	1.19	1.0E-58	4758081	NT	Homo sapiens chondroitin sulfate proteoglycan 2 (versican) (CSPG2) mRNA
3733	16775	29687	0.7	1.0E-58	4507628	NT	Homo sapiens transition protein 1 (during histone to protamine replacement) (TNP1) mRNA

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5006	18020	30908	5.17	1.0E-58	AI141063.1	EST_HUMAN	oz43h01.x1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:1678129 3'
5941	19027	32221	1.18	1.0E-58	BE061860.1	EST_HUMAN	RC1-BT0254-230100-015-e01 BT0254 Homo sapiens cDNA
7049	20068	33374	0.64	1.0E-58	11422031	NT	Homo sapiens hypothetical protein (LOC51260), mRNA
8451	21420		0.5	1.0E-58	AW973537.1	EST_HUMAN	EST385637 MAGE repeat sequences, MAGM Homo sapiens cDNA
9221	22187	35619	0.59	1.0E-58	4505314	NT	Homo sapiens myomesin (M-protein) 2 (165kD) (MYOM2), mRNA
9333	22298	35727	0.94	1.0E-58	AV751001.1	EST_HUMAN	AV751001 NPC Homo sapiens cDNA clone NPCACH09 5'
9436	22400	35837	0.55	1.0E-58	AA412397.1	EST_HUMAN	z69f05.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:730497 5'
9436	22400	35838	0.55	1.0E-58	AA412397.1	EST_HUMAN	z69f05.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:730497 5'
10548	23468	36963	0.58	1.0E-58	11432894	NT	Homo sapiens discs, large (Drosophila) homolog 2 (chapsyn-110) (DLG2), mRNA
12089	24942		2.61	1.0E-58	X63392.1	NT	H. sapiens immunoglobulin kappa light chain variable region L14
2238	15252	28276	21.09	8.0E-59	4507378	NT	Homo sapiens TATA box binding protein (TBP), mRNA
7016	20141	33458	0.71	8.0E-59	AA382291.1	EST_HUMAN	EST95683 Testis I Homo sapiens cDNA 5' end
7015	20141	33459	0.71	8.0E-59	AA382291.1	EST_HUMAN	EST95683 Testis I Homo sapiens cDNA 5' end
8521	21439	34904	3.74	8.0E-59	A1761963.1	EST_HUMAN	W50406.x1 NCI_CGAP_Kid1 Homo sapiens cDNA clone IMAGE:2384171 3'
179	15834		3.9	8.0E-59	BF035327.1	EST_HUMAN	W0145833F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3882086 5'
8151	21089	34489	1.64	6.0E-59	AA962431.1	EST_HUMAN	om81a04.s1 NCI_CGAP_Kid9 Homo sapiens cDNA clone IMAGE:1553550 3' similar to TR:Q13732 Q13732 SA GENE PRODUCT PRECURSOR.;
8588	21556	34972	0.56	6.0E-59	A1750970.1	EST_HUMAN	cn08h02.y1 Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NHTBC_cn08h02 random
1788	14797	27782	1.19	6.0E-59	AW157281.1	EST_HUMAN	au93h05.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2783865 3' similar to TR:O75786 O75786 GANGLIOSIDE-INDUCED DIFFERENTIATION ASSOCIATED PROTEIN 1.;
1788	14797	27783	1.19	6.0E-59	AW157281.1	EST_HUMAN	au93h05.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2783865 3' similar to TR:O75786 O75786 GANGLIOSIDE-INDUCED DIFFERENTIATION ASSOCIATED PROTEIN 1.;
3144	16201	29112	7.03	5.0E-59	A1807484.1	EST_HUMAN	wf48c11.x1 Soares_NFL_I_GBC_S1 Homo sapiens cDNA clone IMAGE:2358836 3'
4687	17708	30601	7.38	5.0E-59	X63497.1	NT	H. sapiens DNA for ZNF80-linked ERV9 long terminal repeat
5796	18888	32070	0.58	5.0E-59	6005698	NT	Homo sapiens atadn 2 related protein (AZLP), mRNA
7192	18413	31215	7.91	5.0E-59	AW162304.1	EST_HUMAN	au68c07.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2781228 3' similar to contains element TAR1 repetitive element;
9158	22124	35553	0.95	5.0E-59	11421778	NT	Homo sapiens polymerase (RNA) III (DNA directed) (39kD) (RPC39), mRNA
10063	22890	36459	1.64	5.0E-59	AV762869.1	EST_HUMAN	AV762869 MDS Homo sapiens cDNA clone MDSEIC12 5'
11253	24206	37728	3.1	5.0E-59	11434908	NT	Homo sapiens hypothetical protein (LOC57143), mRNA
794	13853	26801	3.22	4.0E-59	D80006.1	NT	Human mRNA for KIAA0184 gene, partial cds
1242	14278	27239	0.75	4.0E-59	4505818	NT	Homo sapiens phosphatidylinositol-4-phosphate 5-kinase, type II, beta (PIP5K2B) mRNA, and translated products

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1242	14278	27240	0.75	4.0E-59	4505818	NT	Homo sapiens phosphatidylinositol-4-phosphate 5-kinase, type II, beta (PIP5K2B) mRNA, and translated products
5615	18711	31869	1.04	4.0E-59	11034810	NT	Homo sapiens catenin (cadherin-associated protein), delta 2 (neural plakophilin-related arm-repeat protein) (CTNND2), mRNA
12107	24977	38578	1.6	4.0E-59	7657426	NT	Homo sapiens origin recognition complex, subunit 6 (yeast homolog)-like (ORC6L), mRNA
12492	25810		2.98	4.0E-59	AF057720.1	NT	Homo sapiens 17-beta-hydroxysteroid dehydrogenase IV (HSD17B4) gene, promoter region and exon 1
10	13130		6.6	3.0E-59	AW965624.1	EST_HUMAN	EST377582 IMAGE resequences, MAGI Homo sapiens cDNA
228	13327	26250	4.47	3.0E-59	7682247	NT	Homo sapiens KIAA0880 gene product (KIAA0880), mRNA
1723	14753	27738	11.42	3.0E-59	4505860	NT	Homo sapiens plasminogen activator, tissue (PLATa) mRNA
1723	14753	27739	11.42	3.0E-59	4505860	NT	Homo sapiens plasminogen activator, tissue (PLATa) mRNA
2139	15156	28171	6.05	3.0E-59	AB029035.1	NT	Homo sapiens mRNA for KIAA1112 protein, partial cds
2139	15156	28172	6.05	3.0E-59	AB029035.1	NT	Homo sapiens mRNA for KIAA1112 protein, partial cds
3146	16203	29116	2.91	3.0E-59	4502014	NT	Homo sapiens A kinase (PKA) anchor protein 1 (AKAP1), mRNA
3146	16203	29117	2.91	3.0E-59	4502014	NT	Homo sapiens A kinase (PKA) anchor protein 1 (AKAP1), mRNA
3838	18878	29781	1.26	3.0E-59	4508044	NT	Homo sapiens zona pellucida glycoprotein 2 (sperm receptor) (ZP2) mRNA
4712	17732	30826	1.4	3.0E-59	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
4878	17895	30785	1.66	3.0E-59	7427522	NT	Homo sapiens protein tyrosine phosphatase, receptor type, T (PTPRT), mRNA
5091	18101		1.05	3.0E-59	M95961.1	NT	Human prothormone converting enzyme (NEC2) gene, exon 2
6346	19415	32656	1.98	3.0E-59	8924074	NT	Homo sapiens hypothetical protein PRO1741 (PRO1741), mRNA
7584	20545	33906	2.12	3.0E-59	5454137	NT	Homo sapiens nuclear receptor co-repressor 1 (NCOR1), mRNA
8263	21232	34642	1.5	3.0E-59	X12556.1	NT	Human mRNA for dbi proto-oncogene
8263	21232	34643	1.5	3.0E-59	X12556.1	NT	Human mRNA for dbi proto-oncogene
10404	23326	36809	0.84	3.0E-59	X70251.1	NT	H. sapiens CKII-alpha gene
10404	23326	36810	0.84	3.0E-59	X70251.1	NT	H. sapiens CKII-alpha gene
12470	25219		1.37	3.0E-59	11417868	NT	Homo sapiens gamma-glutamyltransferase-like activity 1 (GGTLA1), mRNA
12512	25311		7.97	3.0E-59	11417866	NT	Homo sapiens gamma-glutamyltransferase-like activity 1 (GGTLA1), mRNA
5985	19070	32268	0.82	2.0E-59	BF509383.1	EST_HUMAN	UI-H-BI4-eyb-b-02-Q.U1.s1 NCI CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3086522 3'
5985	19070	32269	0.82	2.0E-59	BF509383.1	EST_HUMAN	UI-H-BI4-eyb-b-02-Q.U1.s1 NCI CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3086522 3'
6979	20202		0.61	2.0E-59	AA470073.1	EST_HUMAN	Z88d05.s1 Soares testis NHT Homo sapiens cDNA clone IMAGE:730377 3'
7272	20007	33307	0.57	2.0E-59	AF135187.1	NT	Homo sapiens interferon-induced protein p78 (MX1) gene, complete cds
8082	21019		0.52	2.0E-59	BF373329.1	EST_HUMAN	MR0-FT0144-250700-002-at0 FT0144 Homo sapiens cDNA
9895	22922		4.9	2.0E-59	AA309774.1	EST_HUMAN	EST180633 Jurkat T-cells V Homo sapiens cDNA 5' end
10593	23613		1.55	2.0E-59	BF365554.1	EST_HUMAN	RC0-NT0036-100700-032-e07 NT0036 Homo sapiens cDNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11180	24136	37667	2.34	2.0E-59	AW410698.1	EST_HUMAN	h07h04.x1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2981654 5'
11180	24136	37668	2.34	2.0E-59	AW410698.1	EST_HUMAN	h07h04.x1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2981654 5'
12373	25158	31857	6.96	2.0E-59	A1631809.1	EST_HUMAN	wa36c12.x1 NCL_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2300182 3' similar to TR:Q88542
12884	28836	31426	4.02	2.0E-59	L11645.1	NT	Q88542 RTVL-H PROTEIN; contains LTR7.b1 LTR7 repetitive element;
184	13267		18.92	1.0E-59	BE286411.1	EST_HUMAN	Homo sapiens alpha-tubulin mRNA, complete cds
2625	15624		3.89	1.0E-59	AA748468.1	EST_HUMAN	601176757F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531927 5'
7812	20761	34137	1.18	1.0E-59	AJ130894.1	NT	6056h11.s1 NCL_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1309029 3' similar to TR:Q13537
7986	20925	34319	1.07	1.0E-59	BE256814.1	EST_HUMAN	Q13537 MER37 TRANSCRIPTIONAL ELEMENT, COMPLETE CONSENSUS SEQUENCE. ;
7986	20925	34320	1.07	1.0E-59	BE256814.1	EST_HUMAN	Homo sapiens mRNA for transcription factor
9740	22768	36222	0.95	1.0E-59	11419630	NT	601111951F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352892 5'
9963	22890	36351	0.54	1.0E-59	11428849	NT	601111951F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352892 5'
9963	22890	36352	0.54	1.0E-59	11428849	NT	Homo sapiens zinc finger protein 275 (ZNF275), mRNA
11201	20761	34137	9.85	1.0E-59	AJ130894.1	NT	Homo sapiens 3-hydroxyisobutyryl-Coenzyme A hydrolase (HIBCH), mRNA
784	13824	26768	2.29	8.0E-60	AW977845.1	EST_HUMAN	Homo sapiens 3-hydroxyisobutyryl-Coenzyme A hydrolase (HIBCH), mRNA
1467	14500	27474	2.85	8.0E-60	4759159	NT	Homo sapiens mRNA for transcription factor
2182	15197	28217	2.65	8.0E-60	5174656	NT	EST389849 MAGE resequences, MAGE Homo sapiens cDNA
2182	15197	28218	2.65	8.0E-60	5174656	NT	Homo sapiens small nuclear ribonucleoprotein D3 polypeptide (18kD) (SNRPD3) mRNA
6094	19173	32389	0.94	8.0E-60	AB028004.1	NT	Homo sapiens differentiation-related gene 1 (nickel-specific induction protein) (RTP) mRNA
6553	19710	32987	1.01	8.0E-60	S83182.1	NT	Homo sapiens differentiation-related gene 1 (nickel-specific induction protein) (RTP) mRNA
7982	20803	34295	0.99	8.0E-60	11420841	NT	Homo sapiens mRNA for KIAA1081 protein, partial cds
8298	21267	34679	2.37	8.0E-60	X17033.1	NT	hyaluronan-binding protein=heparocyte growth factor activator homolog [human, plasma, mRNA, 2408 nt]
9291	22267	35687	2.68	8.0E-60	11428849	NT	Homo sapiens phosphatase cytidyltransferase 1, choline, beta isoform (PCYT1B), mRNA
9826	22675	36130	1.2	8.0E-60	11417118	NT	Human mRNA for Integrin alpha-2 subunit
9826	22675	36131	1.2	8.0E-60	11417118	NT	Homo sapiens S-enkephalin; retina and pineal gland (arrestin) (SAG), mRNA
10938	23858	37373	0.66	8.0E-60	5453397	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
11182	24138	37670	4.65	8.0E-60	AL163204.2	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
11182	24138	37671	4.65	8.0E-60	AL163204.2	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
755	13816	26760	30.34	7.0E-60	AF055066.1	NT	Homo sapiens RAN binding protein 7 (RANBP7), mRNA
756	13816	26760	69.13	7.0E-60	AF055066.1	NT	Homo sapiens RAN binding protein 7 (RANBP7), mRNA
816	13874	26822	1.17	7.0E-60	4504634	NT	Homo sapiens chromosome 21 segment HS21C004
2138	15155	28170	1.04	7.0E-60	AF077188.1	NT	Homo sapiens chromosome 21 segment HS21C004

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Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2786	15788	28906	1.18	7.0E-60	AB011163.1	NT	Homo sapiens mRNA for KIAA0581 protein, partial cds
4208	17237	30124	3.1	7.0E-60	4505488	NT	Homo sapiens ornithine decarboxylase 1 (ODC1) mRNA
4606	17627	30519	0.72	7.0E-60	AF284750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
9762	22703	38161	3.69	7.0E-60	H68041.1	EST_HUMAN	y1204.r1 Soares fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE:205087 5' similar to contains LTR5 repetitive element
11692	24657	38235	1.57	7.0E-60	H68041.1	EST_HUMAN	y1204.r1 Soares fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE:205087 5' similar to contains LTR5 repetitive element
2189	16204	28224	1.01	6.0E-60	BE984974.2	EST_HUMAN	801688751R1 NIH_MGC_59 Homo sapiens cDNA clone IMAGE:3886069 3'
8156	21094	34493	0.66	6.0E-60	11421735	NT	Homo sapiens cAMP response element-binding protein CRE-BPa (H_GS165L15.1), mRNA
8780	21747		8.33	6.0E-60	H52456.1	EST_HUMAN	yq78h09.r1 Soares fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE:201953 5' similar to contains ORF repetitive element
84	13200	26123	1.73	5.0E-60	AI807917.1	EST_HUMAN	wf52c07.x1 Soares NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2359212 3'
84	13200	26124	1.13	5.0E-60	AI807917.1	EST_HUMAN	wf52c07.x1 Soares NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2359212 3'
2244	15258	28284	1.26	4.0E-60	AW503208.1	EST_HUMAN	UI-HF-BN0-akt-g-07-q-U1.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078348 5'
2244	15258	28285	1.26	4.0E-60	AW503208.1	EST_HUMAN	UI-HF-BN0-akt-g-07-q-U1.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078348 5'
2984	16042		1.31	4.0E-60	AA299037.1	EST_HUMAN	EST11498 Uterus Homo sapiens cDNA 5' end similar to similar to retrovirus-related pol
7576	20538	33897	0.91	4.0E-60	BF196088.1	EST_HUMAN	hr8105.x1 NCL CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3134913 3' similar to SW:RHOP_MOUSE
9482	22446		0.59	4.0E-60	AL163278.2	NT	Q61085 GTP-RHO BINDING PROTEIN 1
11628	24566	38127	1.7	4.0E-60	11433597	NT	Homo sapiens chromosome 21 segment HS21C078
11628	24566	38128	1.7	4.0E-60	11433597	NT	Homo sapiens v-rat-1 murine leukemia viral oncogene homolog 1 (RAF1), mRNA
1878	14901	27900	4.44	3.0E-60	BE562611.1	EST_HUMAN	Homo sapiens v-rat-1 murine leukemia viral oncogene homolog 1 (RAF1), mRNA
1878	14901	27901	4.44	3.0E-60	BE562611.1	EST_HUMAN	601336446F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3690395 5'
1885	14910		1.88	3.0E-60	6031190	NT	601336446F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3690395 5'
4485	17510	30398	2.27	3.0E-60	AJ271735.1	NT	Homo sapiens prohibitin (PHB) mRNA
5452	18554	31465	2.11	3.0E-60	BF365143.1	EST_HUMAN	Homo sapiens Xq pseudautosomal region, segment 1/2
5724	18818	31997	2.11	3.0E-60	AW836196.1	EST_HUMAN	QV4-NN149-250900-423-01 NN1149 Homo sapiens cDNA
7143	18375	31263	0.95	3.0E-60	AI792814.1	EST_HUMAN	RC3-LT0023-200100-012-e07 LT0023 Homo sapiens cDNA
8745	21713	35135	5.22	3.0E-60	5174844	NT	660h11.y5 NCL CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1534053 5' similar to SW:UDP_MOUSE
8745	21713	35136	5.22	3.0E-60	5174844	NT	P52824 URIDINE PHOSPHORYLASE
8930	21896	35324	0.58	3.0E-60	AI040235.1	EST_HUMAN	Homo sapiens proline dehydrogenase (proline oxidase) (PRODH) mRNA
9094	22060	35485	4.2	3.0E-60	5174844	NT	Homo sapiens proline dehydrogenase (proline oxidase) (PRODH) mRNA

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10017	22944	36411	0.42	3.0E-60	BF102612.1	EST_HUMAN	601646227F1 NIH_MGC_60 Homo sapiens cDNA clone IMAGE:3930990 5'
12970	25871		1.53	3.0E-60	AA485286.1	EST_HUMAN	ab07h04.r1 Stralagene lung (#637210) Homo sapiens cDNA clone IMAGE:840151 5' similar to contains LTR10.11 LTR10 repetitive element ;
33	13153	26054	1.7	2.0E-60	AY008285.1	NT	Homo sapiens solute carrier (SLC25A18) mRNA, complete cds; nuclear gene for mitochondrial product
1421	14454	27428	2.76	2.0E-60	Z11694.1	NT	H.sapiens 41kDa protein kinase related to rat ERK2
1734	14764	27747	1.34	2.0E-60	M24603.1	NT	Human bcr protein mRNA, 5' end
1743	14773	27758	1.01	2.0E-60	AY008285.1	NT	Homo sapiens solute carrier (SLC25A18) mRNA, complete cds; nuclear gene for mitochondrial product
2492	15495	28520	1.76	2.0E-60	AW380450.1	EST_HUMAN	RC1-HT02688-031299-012-402 HT02688 Homo sapiens cDNA
2614	15612	28637	1.38	2.0E-60	7657229	EST_HUMAN	Homo sapiens interleukin 17 receptor (IL17R), mRNA
2721	15715	28733	0.94	2.0E-60	AW978005.1	EST_HUMAN	EST390114 MAGE sequences, MAGE Homo sapiens cDNA
3592	16637	29557	1.49	2.0E-60	4757867	NT	Homo sapiens v-rat murine sarcoma viral oncogene homolog B1 (BRAF) mRNA
3935	16975	29889	0.83	2.0E-60	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
4151	17182		0.65	2.0E-60	BF513458.1	EST_HUMAN	UHF-BW1-ams-e-05-0-JL.s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3070952 3'
6433	19499	32752	0.9	2.0E-60	AI791952.1	EST_HUMAN	nm011212.y5 NCI_CGAP_Co9 Homo sapiens cDNA clone IMAGE:1076495 5' similar to contains THR.11 THR repetitive element ;
6840	19688	32974	1.49	2.0E-60	AF004877.1	NT	Homo sapiens pro-alpha 2(I) collagen (COL1A2) gene, complete cds
6874	19927	33224	0.92	2.0E-60	AF157476.1	NT	Homo sapiens DNA polymerase zeta catalytic subunit (REV3) mRNA, complete cds
7027	18359	31279	2.05	2.0E-60	4503044	NT	Homo sapiens corticotroph releasing hormone receptor 2 (CRHR2) mRNA
7027	18359	31280	2.05	2.0E-60	4503044	NT	Homo sapiens corticotroph releasing hormone receptor 2 (CRHR2) mRNA
7317	20288	33630	6.6	2.0E-60	AA311159.1	EST_HUMAN	EST181949 Jurkat T-cells V Homo sapiens cDNA 5' end similar to similar to prothymosin, alpha
7317	20288	33631	6.6	2.0E-60	AA311159.1	EST_HUMAN	EST181949 Jurkat T-cells V Homo sapiens cDNA 5' end similar to similar to prothymosin, alpha
7434	20401	33755	0.53	2.0E-60	AI308124.1	EST_HUMAN	tb23d09.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2055185 3' similar to SW:GALR_RAT Q62805 GALANIN RECEPTOR ;
7894	20837		1.08	2.0E-60	BF512808.1	EST_HUMAN	U1H-BW1-ams-u-02-0-JL.s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3071210 3'
8338	21307	34722	1.09	2.0E-60	X85597.1	EST_HUMAN	HS15BEST human adult testis Homo sapiens cDNA clone CAM_1EST15
9219	22185	35618	4.86	2.0E-60	L36033.1	NT	Human pre-B cell stimulating factor homologue (SDF1b) mRNA, complete cds
10337	23261	36740	2.2	2.0E-60	11991659	NT	Homo sapiens sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6A (SEMA6A), mRNA
10337	23261	36741	2.2	2.0E-60	11991659	NT	Homo sapiens sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6A (SEMA6A), mRNA
12094	24965	38561	1.9	2.0E-60	AW761191.1	EST_HUMAN	CMO-CT0013-290699-017-403 CT0013 Homo sapiens cDNA
12094	24965	38562	1.9	2.0E-60	AW761191.1	EST_HUMAN	CMO-CT0013-290699-017-403 CT0013 Homo sapiens cDNA

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Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12947	28330		1.38	2.0E-60	11418192	NT	Homo sapiens non-histone chromosome protein 2 (S. cerevisiae)-like 1 (NHP2L1), mRNA
12771	26800		1.82	2.0E-60	AF068757.1	NT	Homo sapiens somatostatin receptor subtype 3 (SSTR3) gene, 5' flanking region and partial cds
12773	25411		5.04	2.0E-60	11418068	NT	Homo sapiens similar to HSPC022 protein (H. sapiens) (LOC83504), mRNA
12789	28421		2.36	2.0E-60	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
523	13594	26512	0.97	1.0E-60	BE178596.1	EST_HUMAN	PM3-HT0605-270200-001-e06 HT0605 Homo sapiens cDNA
3920	16960	29873	1.46	1.0E-60	AU143389.1	EST_HUMAN	AU143389 Y79AA1 Homo sapiens cDNA clone Y79AA1001854 5'
4993	18008	30896	1.34	1.0E-60	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
8280	21249	34661	0.98	1.0E-60	BE064410.1	EST_HUMAN	RC4-BT0311-141199-011-P06 BT0311 Homo sapiens cDNA
9108	22074		3.08	1.0E-60	AA244041.1	EST_HUMAN	nc04e12r1 NCI_CGAP_P1 Homo sapiens cDNA clone IMAGE:1007182 similar to contains L1.L1 L1 repetitive element
9134	22100	35526	1.38	1.0E-60	AV754081.1	EST_HUMAN	AV754081 TP Homo sapiens cDNA clone TPGAED05 5'
1101	14145	27095	1.85	9.0E-61	AU119344.1	EST_HUMAN	AU119344 HEMBA1 Homo sapiens cDNA clone HEMBA1005583 5'
9061	22027	35450	0.46	9.0E-61	4885546	NT	Homo sapiens PHD finger protein 2 (PHF2) mRNA
9061	22027	35451	0.46	9.0E-61	4885546	NT	Homo sapiens PHD finger protein 2 (PHF2) mRNA
2678	15674	28694	1.17	8.0E-61	AW006478.1	EST_HUMAN	w05b10.x1 NCI_CGAP_C03 Homo sapiens cDNA clone IMAGE:2506555 3'
2678	15674	28695	1.17	8.0E-61	AW006478.1	EST_HUMAN	w05b10.x1 NCI_CGAP_C03 Homo sapiens cDNA clone IMAGE:2506555 3'
2962	18020		1.66	8.0E-61	X57147.1	NT	Human endogenous retrovirus pHE.1 (ERV9)
8227	21196	34604	0.73	8.0E-61	AA583968.1	EST_HUMAN	nm59g06.st NCI_CGAP_Lar1 Homo sapiens cDNA clone IMAGE:1088218 3'
11926	24807	38400	1.47	8.0E-61	H71225.1	EST_HUMAN	ye12e09.r1 Soares fetal liver spleen 1NLS Homo sapiens cDNA clone IMAGE:214600 5' similar to SP:C40H1.1 CE00109 OVARIAN PROTEIN
11926	24807	38401	1.47	8.0E-61	H71225.1	EST_HUMAN	ye12e09.r1 Soares fetal liver spleen 1NLS Homo sapiens cDNA clone IMAGE:214600 5' similar to SP:C40H1.1 CE00109 OVARIAN PROTEIN
128	13234	26163	0.67	7.0E-61	7706670	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
128	13234	26164	0.67	7.0E-61	7706670	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
265	13361	26285	2.61	6.0E-61	BE409310.1	EST_HUMAN	601300938F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3635480 5'
812	13870	26819	2.17	6.0E-61	BE409310.1	EST_HUMAN	601300938F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3635480 5'
1324	14359	27326	13.5	6.0E-61	AF119880.1	NT	Homo sapiens PRO2014 mRNA, complete cds
1634	14686	27642	0.9	6.0E-61	BE257400.1	EST_HUMAN	601109238F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3350145 5'
1655	14687	27662	2.32	6.0E-61	AA596033.1	EST_HUMAN	nm66n09.st NCI_CGAP_Lar1 Homo sapiens cDNA clone IMAGE:1088897 3'
2137	15154	28169	0.91	6.0E-61	AY008285.1	NT	Homo sapiens solute carrier (SLC25A18) mRNA, complete cds; nuclear gene for mitochondrial product
3317	16370	29290	8.07	6.0E-61	AU130689.1	EST_HUMAN	AU130689 NT2RP3 Homo sapiens cDNA clone NT2RP3001263 5'
6147	19222	32452	3.09	6.0E-61	S79249.1	NT	Ig-beta/B29=CD79b (alternatively spliced) [human, B cells, mRNA Partial, 375 nt]
7565	20528	33887	1.53	6.0E-61	U24498.1	NT	Human autosomal dominant polycystic kidney disease protein 1 (PKD1) gene

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7878	20822	34199	1.87	6.0E-61	AF035737.1	NT	Homo sapiens general transcription factor 21 (GTF2I) mRNA, complete cds
221	13321	26246	1.14	5.0E-61	8922990	NT	Homo sapiens hypothetical protein FLJ11316 (FLJ11316), mRNA
221	13321	26247	1.14	5.0E-61	8922990	NT	Homo sapiens hypothetical protein FLJ11316 (FLJ11316), mRNA
1688	14719	27699	3.18	5.0E-61	4508008	NT	Homo sapiens protein phosphatase 1, regulatory subunit 10 (PPP1R10), mRNA
3049	16108	28020	1.98	5.0E-61	AL163279.2	NT	Homo sapiens chromosome 21 segment HS21C078
4008	17045		1.87	5.0E-61	AJ229041.1	NT	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22; segment 1/3
1774	14803	27788	1.17	4.0E-61	AU140307.1	EST_HUMAN	AU140307 PLACE2 Homo sapiens cDNA clone PLACE200302 5'
5913	18999	32190	0.51	4.0E-61	7681637	NT	Homo sapiens DKFZP568B023 protein (DKFZP568B023), mRNA
12348	25143		2.27	4.0E-61	AV731140.1	EST_HUMAN	AV731140 HTF Homo sapiens cDNA clone HTFARB01 5'
8764	21731	35154	0.85	3.0E-61	AF150190.1	EST_HUMAN	AF150190 Human mRNA from cd34+ stem cells Homo sapiens cDNA clone CBDAGB04
499	13571	28483	1.74	2.0E-61	8922829	NT	Homo sapiens hypothetical protein FLJ11026 (FLJ11026), mRNA
1217	14255	27213	3.4	2.0E-61	BE168410.1	EST_HUMAN	QV3-HT0513-060400-147-d01 HT0513 Homo sapiens cDNA
1217	14255	27214	3.4	2.0E-61	BE168410.1	EST_HUMAN	QV3-HT0513-060400-147-d01 HT0513 Homo sapiens cDNA
1674	14708	27694	1.34	2.0E-61	N53039.1	EST_HUMAN	y63d11.s1 Soares fetal liver spleen 1N5LS Homo sapiens cDNA clone IMAGE:246453 3' similar to
2849	15846		1.25	2.0E-61	N39397.1	EST_HUMAN	gbl25444 60S RIBOSOMAL PROTEIN L35A (HUMAN);
6568	19828	32891	0.92	2.0E-61	11428168	NT	Homo sapiens ATPase, H+ transporting, lysosomal (vacuolar proton pump) non-catalytic accessory protein 1A (110/116kD) (ATP6N1A), mRNA
9369	22334	35765	1.07	2.0E-61	AV694317.1	EST_HUMAN	AV694317 GK Homo sapiens cDNA clone GKDELG06 5'
9920	22741		1.27	2.0E-61	AB011108.1	NT	Homo sapiens mRNA for KIAA0536 protein, partial cds
10282	23207	36692	1.81	2.0E-61	AW500258.1	EST_HUMAN	U1HF-BN0-akd.f-12.0-U1.1f NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3076774 5'
10812	23534	37031	2.88	2.0E-61	11421778	NT	Homo sapiens polymerase (RNA) III (DNA directed) (39kD) (RPC39), mRNA
11230	24183		6.91	2.0E-61	11419729	NT	Homo sapiens ribosomal protein L44 (RPL44), mRNA
13042	25583	31701	1.39	2.0E-61	AW985326.1	EST_HUMAN	QV0-BN0042-170300-162-f10 BN0042 Homo sapiens cDNA
435	13509		1.85	1.0E-61	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
774	13833	28779	0.98	1.0E-61	5453829	NT	Homo sapiens origin recognition complex, subunit 2 (yeast homolog)-like (ORC2L) mRNA
1784	14813		0.85	1.0E-61	U32657.1	NT	Human polymorphic trinucleotide repeat in X-linked retinitis pigmentosa (RP3) gene region
1875	14900	27899	4.69	1.0E-61	6005983	NT	Homo sapiens zona pellucida glycoprotein 3A (sperm receptor) (ZP3A), mRNA
2206	15221	28241	1.52	1.0E-61	AW827281.1	EST_HUMAN	zn11b08.y1 NCI_CGAP_L15 Homo sapiens cDNA clone IMAGE:2693369 5' similar to contains element MSR1 repetitive element
2949	15908	28831	1.58	1.0E-61	BE586363.1	EST_HUMAN	601273513F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3614687 5'
3387	16436	29363	0.87	1.0E-61	7682319	NT	Homo sapiens KIAA0806 gene product (KIAA0806), mRNA
4288	17317	30199	1	1.0E-61	M68840.1	NT	Human monamine oxidase A (MAOA) mRNA, complete cds
4468	17494	30381	1.02	1.0E-61	4759249	NT	Homo sapiens TRAF family member-associated NFKB activator (TANK) mRNA

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4488	17494	30382	1.02	1.0E-61	4759249	NT	Homo sapiens TRAF family member-associated NFkB activator (TANK) mRNA
4893	17910	30799	9.18	1.0E-61	AW298181.1	EST_HUMAN	U1-H-BWO-aj-b-08-0-U1.s1 NCI_CGAP_Sub6 Homo sapiens cDNA clone IMAGE:2732871.3'
4893	17910	30800	9.18	1.0E-61	AW298181.1	EST_HUMAN	U1-H-BWO-aj-b-08-0-U1.s1 NCI_CGAP_Sub6 Homo sapiens cDNA clone IMAGE:2732871.3'
4971	17986	30876	0.94	1.0E-61	7705898	NT	Homo sapiens flavohemoglobin b5-b5R (LOC51167), mRNA
4971	17986	30877	0.94	1.0E-61	7705898	NT	Homo sapiens flavohemoglobin b5-b5R (LOC51167), mRNA
5487	18589	31479	0.68	1.0E-61	M78423.1	NT	H. sapiens carbonic anhydrase VII (CA VII) gene, exons 4, 5, 6, and 7, and complete cds
5773	18865	32046	0.74	1.0E-61	7662303	NT	Homo sapiens KIAA0783 gene product (KIAA0783), mRNA
5984	19089	32267	1.02	1.0E-61	11418891	NT	Homo sapiens survival of motor neuron 1, telomeric (SMN1), mRNA
7085	20019	33321	7.63	1.0E-61	M30135.1	NT	Human P40 T-cell and mast cell growth factor (hP40) gene, complete cds
7298	20270	33605	0.95	1.0E-61	4759171	NT	Homo sapiens SC35-interacting protein 1 (SRRP129), mRNA
7397	20365	33717	1.58	1.0E-61	8923130	NT	Homo sapiens hypothetical protein FLJ20128 (FLJ20128), mRNA
7397	20365	33718	1.58	1.0E-61	8923130	NT	Homo sapiens hypothetical protein FLJ20128 (FLJ20128), mRNA
8471	21440	34858	4.16	1.0E-61	11034840	NT	Homo sapiens growth hormone releasing hormone (GHRH), mRNA
8856	21624	35044	3.41	1.0E-61	AF224699.1	NT	Homo sapiens mannosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3 (UBE2D3) genes, complete cds
9637	22581	36122	2.94	1.0E-61	AW999726.1	EST_HUMAN	MRO-BN0070-040400-010-H01 BN0070 Homo sapiens cDNA
9712	22665	36122	0.99	1.0E-61	11416280	NT	Homo sapiens cadherin 18 (CDH18), mRNA
10389	23311	36790	5.56	1.0E-61	11428892	NT	Homo sapiens KIAA0971 protein (KIAA0971), mRNA
10998	23964	37488	3.38	1.0E-61	11425578	NT	Homo sapiens actinin, alpha 4 (ACTN4), mRNA
11661	24597		3.59	1.0E-61	BE439409.1	EST_HUMAN	HTM1-025F1 HTM1 Homo sapiens cDNA
12283	25846	31433	4.15	1.0E-61	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
12283	25846	31434	4.15	1.0E-61	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
12652	25335	31761	23.14	1.0E-61	M20809.1	NT	Human kappa-immunoglobulin germline pseudogene (Chr1) variable region (subgroup V kappa I)
12942	25521	31711	10.09	1.0E-61	11418127	NT	Homo sapiens GTP binding protein 1 (GTPBP1), mRNA
10722	23644	37137	2.13	9.0E-62	BE064386.1	EST_HUMAN	RC4-BT0310-110300-075-F10 BT0310 Homo sapiens cDNA
4581	17603	30500	1.04	8.0E-62	AA830420.1	EST_HUMAN	cc68h11.s1 NCI_CGAP_G0B1 Homo sapiens cDNA clone IMAGE:1354725.3' similar to SW:POL_MLVRK
1109	14153	27103	1.9	7.0E-62	AV714334.1	EST_HUMAN	P31795 POL POLYPROTEIN;
3517	16563	29488	0.7	7.0E-62	P17480	SWISSPROT	AV714334 DCB Homo sapiens cDNA clone DCBAMA08.5'
6023	19106	32309	1.13	7.0E-62	11427965	NT	NUCLEOLAR TRANSCRIPTION FACTOR 1 (UPSTREAM BINDING FACTOR 1) (UBF-1) (AUTOANTIGEN NOR-90)
11678	24644	38221	9.39	7.0E-62	A1209681.1	EST_HUMAN	Homo sapiens hypothetical protein (FLJ20261), mRNA
3012	16070		1.49	8.0E-62	U09410.1	NT	gg56a04.x1 Soares testis NHT Homo sapiens cDNA clone IMAGE:1839150.3' similar to TR:O15103
							O15103 HYPOTHETICAL 27.3 KD PROTEIN ;
							Human zinc finger protein ZNF131 mRNA, partial cds

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3395	16444		4.9	6.0E-62	11418255	NT	Homo sapiens CGI-56 protein (CGI-56), mRNA
7887	20831	34209	3.27	6.0E-62	A1762801.1	EST_HUMAN	wf04d02.x1 NCI_CGAP_GLI1 Homo sapiens cDNA clone IMAGE:2389251 3'
7887	20831	34210	3.27	6.0E-62	A1762801.1	EST_HUMAN	wf04d02.x1 NCI_CGAP_GLI1 Homo sapiens cDNA clone IMAGE:2389251 3'
8422	21391		0.72	6.0E-62	AW501124.1	EST_HUMAN	UHF-BP0p-ait-d-09-0-UI.r1 NIH_MGC_51 Homo sapiens cDNA clone IMAGE:3072833 5'
8600	21568	34984	1.4	6.0E-62	11431139	NT	Homo sapiens CGI-18 protein (LOC51008), mRNA
9709	22662	38118	4.02	6.0E-62	AW814393.1	EST_HUMAN	MR3-ST0203-130100-025-a09 ST0203 Homo sapiens cDNA
416	13489	28424	2.28	5.0E-62	A1950528.1	EST_HUMAN	wf51e07.x1 NCI_CGAP_Lu28 Homo sapiens cDNA clone IMAGE:2547204 3' similar to SW:GG95_HUMAN
2418	15423	28446	3.61	5.0E-62	AJ271735.1	NT	Q08378 GOLGIN-95, contains element MER22 repetitive element;
2418	15423	28447	3.61	5.0E-62	AJ271735.1	NT	Homo sapiens Xq pseudautosomal region; segment 1/2
2596	15597	28615	1.43	5.0E-62	U39487.1	NT	Homo sapiens Xq pseudautosomal region; segment 1/2
2596	15597	28616	1.43	5.0E-62	U39487.1	NT	Human xanthine dehydrogenase/oxidase mRNA, complete cds
3430	16478	28397	2.95	5.0E-62	4506758	NT	Human xanthine dehydrogenase/oxidase mRNA, complete cds
4355	17382	30264	1.91	5.0E-62	AA431093.1	EST_HUMAN	Homo sapiens ryanodine receptor 3 (RYSR3) mRNA
4589	17811		1.1	5.0E-62	AW903887.1	EST_HUMAN	RC5-NN1089-100500-021-H03 NN1089 Homo sapiens cDNA
8894	21860	35283	0.64	5.0E-62	4506758	NT	Homo sapiens ryanodine receptor 3 (RYSR3) mRNA
9875	22828	36282	8.13	5.0E-62	AW410689.1	EST_HUMAN	fh07g08.x1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2961816 5'
11596	24534	38090	2.18	5.0E-62	11425574	NT	Homo sapiens muscle specific gene (M9), mRNA
11596	24534	38091	2.18	5.0E-62	11425574	NT	Homo sapiens muscle specific gene (M9), mRNA
841	13898	26853	2.29	4.0E-62	AW161479.1	EST_HUMAN	au71d03.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2781701 5' similar to gb:M37104
841	13898	26854	2.29	4.0E-62	AW161479.1	EST_HUMAN	ATP SYNTHASE COUPLING FACTOR 6, MITOCHONDRIAL PRECURSOR (HUMAN);
842	13898	26853	1.27	4.0E-62	AW161479.1	EST_HUMAN	au71d03.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2781701 5' similar to gb:M37104
842	13898	26854	1.27	4.0E-62	AW161479.1	EST_HUMAN	ATP SYNTHASE COUPLING FACTOR 6, MITOCHONDRIAL PRECURSOR (HUMAN);
1458	14491		1	4.0E-62	AA311281.1	EST_HUMAN	au71d03.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2781701 5' similar to gb:M37104
2484	15488	28491	2.85	4.0E-62	A1827900.1	EST_HUMAN	ATP SYNTHASE COUPLING FACTOR 6, MITOCHONDRIAL PRECURSOR (HUMAN);
2484	15488	28492	2.85	4.0E-62	A1827900.1	EST_HUMAN	au71d03.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2781701 5' similar to gb:M37104
3410	16459		6.48	4.0E-62	4557887	NT	EST182043 Jurkat T-cells V Homo sapiens cDNA 5' end
							wf12b08.x1 Soares NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2350359 3' similar to
							gb:X57138_ma1 HISTONE H2B.2 (HUMAN);
							wf12b08.x1 Soares NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2350359 3' similar to
							gb:X57138_ma1 HISTONE H2B.2 (HUMAN);
							Homo sapiens keratin 18 (KRT18) mRNA

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6032	19115	32318	1.63	4.0E-62	4506978	NT	Homo sapiens solute carrier family 13 (sodium-dependent dicarboxylate transporter), member 2 (SLC13A2) mRNA
6429	19495	32748	2.53	4.0E-62	11420654	NT	Homo sapiens ubiquitin specific protease 9, X chromosome (Drosophila fat facets related) (USP9X), mRNA
7377	20347	33698	2.08	4.0E-62	11421041	NT	Homo sapiens phosphoribosyl pyrophosphate synthetase 2 (PRPS2), mRNA
7896	20839	34219	2.59	4.0E-62	7657057	NT	Homo sapiens eukaryotic translation initiation factor 2B, subunit 2 (beta, 39kD) (EIF2B2), mRNA
7896	20839	34220	2.59	4.0E-62	7657057	NT	Homo sapiens eukaryotic translation initiation factor 2B, subunit 2 (beta, 39kD) (EIF2B2), mRNA
8511	21478	34893	0.93	4.0E-62	11429873	NT	Homo sapiens 26S proteasome-associated pad1 homolog (POH1), mRNA
9198	22164	35584	5.95	4.0E-62	AB033089.1	NT	Homo sapiens mRNA for KIAA1283 protein, partial cds
11353	24303	37830	3.05	4.0E-62	Z78786.1	NT	H. sapiens flow-sorted chromosome 6 HindIII fragment, SC6pA16D3
11353	24303	37831	3.05	4.0E-62	Z78786.1	NT	H. sapiens flow-sorted chromosome 6 HindIII fragment, SC6pA16D3
11598	24536	38093	1.57	4.0E-62	AW023569.1	EST_HUMAN	dis5g04.y1 Marfan Fetal Cochlea Homo sapiens cDNA clone IMAGE:2487751 5'
12267	25090	38176	3.39	4.0E-62	11418086	NT	Homo sapiens putative nuclear protein (HRHFB2122), mRNA
12491	25803		1.3	4.0E-62	11418192	NT	Homo sapiens non-histone chromosome protein 2 (S. cerevisiae) like 1 (NHP2L1), mRNA
12871	25905	31706	1.96	4.0E-62	11418322	NT	Homo sapiens cadherin EGF LAG seven-pass G-type receptor 1 (CELSR1), mRNA
12924	25500	31703	19.77	4.0E-62	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12924	25500	31704	19.77	4.0E-62	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12977	25542	31717	3.07	4.0E-62	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
75	13192	26114	0.68	3.0E-62	4557794	NT	Homo sapiens neurofibromin 2 (bilateral acoustic neuroma) (NF2), mRNA
3059	16116	29029	1.02	3.0E-62	AB040909.1	NT	Homo sapiens mRNA for KIAA1476 protein, partial cds
3059	16116	29030	1.02	3.0E-62	AB040909.1	NT	Homo sapiens mRNA for KIAA1476 protein, partial cds
3712	16755	29669	3.52	3.0E-62	X52858.1	NT	Human cyclophilin-related processed pseudogene
8895	21851	35272	4.85	3.0E-62	AF632733.1	EST_HUMAN	wa33f04.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2289803 3' similar to contains THR.12
1235	14272	27292	2.78	2.0E-62	AL163284.2	NT	THR repetitive element;
8142	21079	34479	0.68	2.0E-62	AA307490.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C084
9127	22093	35520	4.47	2.0E-62	BF329911.1	EST_HUMAN	EST176874 Colon carcinoma (HCC) cell line Homo sapiens cDNA 5' end
9127	22093	35521	4.47	2.0E-62	BF329911.1	EST_HUMAN	RC0-BN0284-300500-031-e05 BN0284 Homo sapiens cDNA
							RC0-BN0284-300500-031-e05 BN0284 Homo sapiens cDNA
10533	23455		4.96	2.0E-62	AF224689.1	NT	Homo sapiens mannosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3 (UBE2D3) genes, complete cds
11996	24873		20.5	2.0E-62	BF330676.1	EST_HUMAN	QV4-BT0267-081199-017-e03 BT0267 Homo sapiens cDNA
1045	14091	27044	1.88	1.0E-62	AF248540.1	NT	Homo sapiens intersecin 2 (SH3D1B) mRNA, complete cds
1547	14580	27552	12.74	1.0E-62	L78910.1	NT	Homo sapiens ADP/ATP carrier protein (ANT-2) gene, complete cds

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1815	14842	27833	1.18	1.0E-62	AA625207.1	EST_HUMAN	ef70e1.1.r1 Soares_NhhIMP_u_S1 Homo sapiens cDNA clone IMAGE:1047404 5' similar to WP:K01H12.1
2825	15983	28906	1.45	1.0E-62	AL039044.1	EST_HUMAN	CE03453 ;
3435	16482		1.15	1.0E-62	AB040911.1	NT	DKFZp566F104_r1 568 (synonym: hlk2) Homo sapiens cDNA clone DKFZp566F104 5'
4558	17579	30470	1.43	1.0E-62	8923201	NT	Homo sapiens mRNA for KIAA1478 protein, partial cds
5169	18178	31056	0.88	1.0E-62	AA148822.1	EST_HUMAN	Homo sapiens hypothetical protein FLJ20212 (FLJ20212), mRNA
5186	18205	31079	0.94	1.0E-62	L23503.1	NT	z06b08.r1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:491511 5' similar to SW:CS61_BOVIN_P10897 CYTOCHROME B561 ;
							Human glucagon-like peptide-1 receptor (GLP-1) mRNA, complete cds
							Homo sapiens X28 region near ALD locus containing dual specificity phosphatase 9 (DUSP9), ribosomal protein L18a (RPL18a), Ca2+/Calmodulin-dependent protein kinase I (CAMKI), creatine transporter (CRTR), CDM protein (CDM), adrenoleukodystrophy protein >
6421	19488	32738	2.84	1.0E-62	U52111.2	NT	
7341	20312	33655	0.91	1.0E-62	AA490060.1	EST_HUMAN	ab05c02.s1 Stratiens fetal retina 937202 Homo sapiens cDNA clone IMAGE:836806 3'
7352	20322	33668	2.48	1.0E-62	AA722878.1	EST_HUMAN	zg89f10.s1 Soares_fetal_heart_NbHH19W Homo sapiens cDNA clone IMAGE:409771 3'
7352	20322	33670	2.48	1.0E-62	AA722878.1	EST_HUMAN	zg89f10.s1 Soares_fetal_heart_NbHH19W Homo sapiens cDNA clone IMAGE:409771 3'
9110	22078	35502	0.66	1.0E-62	AA280060.1	EST_HUMAN	zs93607.r1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:705060 5'
9413	22378	35818	1.82	1.0E-62	7662289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
9413	22378	35817	1.82	1.0E-62	7662289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
9457	22421	35858	1.97	1.0E-62	X15533.1	NT	H. sapiens lysosomal acid phosphatase gene (EC 3.1.3.2) Exon 9
9457	22421	35859	1.97	1.0E-62	X15533.1	NT	H. sapiens lysosomal acid phosphatase gene (EC 3.1.3.2) Exon 9
9915	22736	36189	3.42	1.0E-62	AA465170.1	EST_HUMAN	aa33d08.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:816055 3'
11694	24659	38237	2.41	1.0E-62	Z78698.1	NT	H. sapiens flow-sorted chromosome 6 HindIII fragment, SC9pA14D8
12750	25397		2.22	1.0E-62	11418322	NT	Homo sapiens catharin EGF LAG seven-pass G-type receptor 1 (OELSR1), mRNA
12856	25529	31714	3.25	1.0E-62	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
338	13427	28349	2.41	9.0E-63	AW816405.1	EST_HUMAN	QV4-ST0234-181199-037-105 ST0234 Homo sapiens cDNA
2353	15362		1.51	9.0E-63	C18159.1	EST_HUMAN	C18159 Human placenta cDNA (TFujiwara) Homo sapiens cDNA clone GEN:558C10 5'
4071	17107	30000	9.29	9.0E-63	AB002348.2	NT	Homo sapiens mRNA for KIAA0350 protein, partial cds
4071	17107	30001	9.29	9.0E-63	AB002348.2	NT	Homo sapiens mRNA for KIAA0350 protein, partial cds
5315	18331	38614	2.17	9.0E-63	11418185	NT	Homo sapiens acylase 2, mitochondrial (ACO2), mRNA
5541	18638	31578	1.3	9.0E-63	Y15056.1	NT	Homo sapiens mRNA for Pk8 kinase
7388	20357	33709	3.41	9.0E-63	11426985	NT	Homo sapiens nucleoporin 88kD (NUP88), mRNA
8138	21075	34475	0.73	9.0E-63	4895544	NT	Homo sapiens pyruvate dehydrogenase kinase, isoenzyme 3 (PDK3) mRNA
8869	21637	35060	1.58	9.0E-63	11421160	NT	Homo sapiens Ras association (RasGDS/RAF-6) domain family 2 (RASSF2), mRNA
11246	24189	37719	1.54	9.0E-63	7662289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
11246	24189	37720	1.54	9.0E-63	7662289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA

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Table 4
Single Exon Probes Expressed In Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2351	15360	28382	1.1	8.0E-63	4557734	NT	Homo sapiens monamine oxidase A (MAOA), nuclear gene encoding mitochondrial protein, mRNA
2383	15391	28416	2.49	8.0E-63	5031810	NT	Homo sapiens IL2-inducible T-cell kinase (ITK), mRNA
3475	16521	29443	3.42	8.0E-63	AF198349.1	NT	Gallus gallus Dach2 protein (Dach2) mRNA, complete cds
3475	16521	29444	3.42	8.0E-63	AF198349.1	NT	Gallus gallus Dach2 protein (Dach2) mRNA, complete cds
4294	17323	30203	3.75	8.0E-63	AL163268.2	NT	Homo sapiens chromosome 21 segment HS21C088
828	13982		1.67	7.0E-63	AB72137.1	EST_HUMAN	wn55g1.1x1 NCL CGAP_U2 Homo sapiens cDNA clone IMAGE:2439608 3'
5412	18515		23.22	8.0E-63	AA420803.1	EST_HUMAN	nc63f02.1 NCL CGAP_P1 Homo sapiens cDNA clone IMAGE:745947 similar to gb:Y00381 80S
8228	22182	35622	0.63	5.0E-63	11528464	NT	RIBOSOMAL PROTEIN (HUMAN);
3332	16983	29305	0.7	4.0E-63	AL163278.2	NT	Homo sapiens G protein-coupled receptor 51 (GPR51), mRNA
3821	16981	29764	1.16	4.0E-63	AB014607.1	NT	Homo sapiens chromosome 21 segment HS21C078
3821	16981	29765	1.18	4.0E-63	AB014607.1	NT	Homo sapiens mRNA for KIAA0707 protein, partial cds
6588	19648	32917	2.92	4.0E-63	AW750372.1	EST_HUMAN	Homo sapiens mRNA for KIAA0707 protein, partial cds
6588	19648	32918	2.92	4.0E-63	AW750372.1	EST_HUMAN	CM3-BT0595-190100-072-e09 BT0595 Homo sapiens cDNA
11467	24410	37958	2.12	4.0E-63	AW134709.1	EST_HUMAN	CM3-BT0595-190100-072-e09 BT0595 Homo sapiens cDNA
11467	24410	37959	2.12	4.0E-63	AW134709.1	EST_HUMAN	UI-H-B1-abq-e-02-Q-UI.s1 NCL CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2712482 3'
13023	25571		1.49	4.0E-63	AA628058.1	EST_HUMAN	UI-H-B1-abq-e-02-Q-UI.s1 NCL CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2712482 3'
1952	14975	27875	2.52	3.0E-63	AB018260.1	NT	z184b01.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:744849 3' similar to contains L1.1 L1
2790	15782	28798	1.85	3.0E-63	J00310.1	NT	repetitive element ;
2832	14280	27243	15.82	3.0E-63	6005563	NT	Homo sapiens mRNA for KIAA0717 protein, partial cds
6619	19877	32854	32.28	3.0E-63	11545810	NT	Human Met-RNA-i gene 1
10064	22991	36460	0.51	3.0E-63	BE876158.1	EST_HUMAN	Homo sapiens zinc finger protein 144 (Maf-18) (ZNF144), mRNA
10064	22991	36461	0.51	3.0E-63	BE876158.1	EST_HUMAN	Homo sapiens hepatocellular carcinoma antigen gene 520 (LOC83928), mRNA
193	13294	26221	1.91	2.0E-63	U07804.1	NT	601485656F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3888253 5'
199	13300	26228	1.91	2.0E-63	4885226	NT	601485656F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3888253 5'
498	13570		3.06	2.0E-63	4557624	NT	Human DNA topoisomerase I mRNA, partial cds
827	13885	28838	1.7	2.0E-63	7657042	NT	Homo sapiens eyes absent (Drosophila) homolog 2 (EYA2), mRNA
1568	14602	27577	4.18	2.0E-63	AB030388.1	NT	Homo sapiens glutamate-cysteine ligase (gamma-glutamylcysteine synthetase), catalytic (72.8kD) (GLCLC) mRNA
1568	14602	27578	4.18	2.0E-63	AB030388.1	NT	Homo sapiens Down syndrome candidate region 1 (DSOR1), mRNA
1781	14810	27796	1.33	2.0E-63	BE410799.1	EST_HUMAN	Homo sapiens RHCE mRNA for Rh blood CE group antigen polypeptide, complete cds
3298	16351	29271	2.77	2.0E-63	AF109718.1	NT	Homo sapiens RHCE mRNA for Rh blood CE group antigen polypeptide, complete cds

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Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3925	16965	29878	3.64	2.0E-63	L39891.1	NT	Homo sapiens polycystic kidney disease-associated protein (PKD1) gene, complete cds
4801	17918	30810	0.95	2.0E-63	AF111167.2	NT	Homo sapiens Jun dimerization protein gene, partial cds; cfos gene, complete cds; and unknown gene
5188	18197	31070	1.19	2.0E-63	BE146928.1	EST_HUMAN	QV4-HT0222-011199-018-g01 HT0222 Homo sapiens cDNA
5232	18240	31112	1.59	2.0E-63	6912617	NT	Homo sapiens glutamyl-peptide cyclotransferase (glutamyl cyclase) (QPCT), mRNA
5334	25635	31192	0.57	2.0E-63	11419429	NT	Homo sapiens similar to ectonucleotide pyrophosphatase/phosphodiesterase 3 (H. sapiens) (LOC63214), mRNA
5988	19071	32270	2.49	2.0E-63	BF373541.1	EST_HUMAN	QV1-F10170-040700-285-c05 F10170 Homo sapiens cDNA
5986	19071	32271	2.49	2.0E-63	BF373541.1	EST_HUMAN	QV1-F10170-040700-285-c05 F10170 Homo sapiens cDNA
6310	19381	32820	0.83	2.0E-63	11421940	NT	Homo sapiens protein kinase, cAMP-dependent, regulatory, type II, beta (PRKAR2B), mRNA
6310	19381	32621	0.83	2.0E-63	11421940	NT	Homo sapiens protein kinase, cAMP-dependent, regulatory, type II, beta (PRKAR2B), mRNA
							Human gemline T-cell receptor beta chain Dopamine-beta-hydroxylase-like, TRY1, TRY2, TRY3, TORBV27S1P, TORBV22S1A2N1T, TORBV9S1A1T, TORBV7S1A1N2T, TORBV6S1A1T, TORBV13S3, TORBV6S7P, TORBV7S3A2T, TORBV13S2A1T, TORBV6S2A2PT, TORBV7S2A1N4T, TORBV13S9/13S>
6860	19913	33209	1.23	2.0E-63	U66059.1	NT	Homo sapiens MIST mRNA, partial cds
6911	19963	33259	0.81	2.0E-63	AB032369.1	NT	Homo sapiens MIST mRNA, partial cds
6911	19963	33260	0.81	2.0E-63	AB032369.1	NT	Homo sapiens MIST mRNA, partial cds
7278	20012	33315	1.48	2.0E-63	9910365	NT	Homo sapiens Carbonic anhydrase-related protein 10 (LOC66334), mRNA
7278	20012	33316	1.48	2.0E-63	9910365	NT	Homo sapiens Carbonic anhydrase-related protein 10 (LOC66334), mRNA
8058	20995	34391	0.82	2.0E-63	AB046844.1	NT	Homo sapiens mRNA for KIAA1624 protein, partial cds
8878	21845	35267	3.8	2.0E-63	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
9409	22374	35810	1.06	2.0E-63	11420949	NT	Homo sapiens kinesin family member 3B (KIF3B), mRNA
9409	22374	35811	1.06	2.0E-63	11420949	NT	Homo sapiens kinesin family member 3B (KIF3B), mRNA
10299	23224	36707	0.98	2.0E-63	AL163218.2	NT	Homo sapiens chromosome 21 segment HS21C018
11098	24058	37582	13.74	2.0E-63	N78945.1	EST_HUMAN	zb18b05.s1 Soares_fetal_lung_NBHL19W Homo sapiens cDNA clone IMAGE:302385 3' similar to gb:X17206.40S RIBOSOMAL PROTEIN S4 (HUMAN);
11127	24087	37614	2.32	2.0E-63	AF098910.1	NT	Homo sapiens neuroxin III-alpha gene, partial cds
11127	24087	37615	2.32	2.0E-63	AF098910.1	NT	Homo sapiens neuroxin III-alpha gene, partial cds
12381	25747	31515	6.02	2.0E-63	11418185	NT	Homo sapiens aconitase 2, mitochondrial (ACO2), mRNA
1516	14547	27518	0.93	1.0E-63	F08485.1	EST_HUMAN	HSCZVD111 normalized infant brain cDNA Homo sapiens cDNA clone c-zvd11
1515	14547	27519	0.93	1.0E-63	F08485.1	EST_HUMAN	HSCZVD111 normalized infant brain cDNA Homo sapiens cDNA clone c-zvd11
4370	17397	30276	3.4	1.0E-63	F08485.1	EST_HUMAN	HSCZVD111 normalized infant brain cDNA Homo sapiens cDNA clone c-zvd11
4370	17397	30277	3.4	1.0E-63	F08485.1	EST_HUMAN	HSCZVD111 normalized infant brain cDNA Homo sapiens cDNA clone c-zvd11
5426	18529	31408	1.66	1.0E-63	AJ271736.1	NT	Homo sapiens Xq pseudautosomal region; segment 2/2

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5864	18553	32140	97.84	1.0E-63	AW582268.1	EST_HUMAN	QV0-ST0215-060100-083-b09 ST0215 Homo sapiens cDNA
6531	19594	32855	0.72	1.0E-63	AW451950.1	EST_HUMAN	UI-H-B13-alt-h-02-0-UI.s1 NCI CGAP_Sub5 Homo sapiens cDNA clone IMAGE:3068763 3'
6531	19594	32856	0.72	1.0E-63	AW451950.1	EST_HUMAN	UI-H-B13-alt-h-02-0-UI.s1 NCI CGAP_Sub5 Homo sapiens cDNA clone IMAGE:3068763 3'
8816	21783		2.94	1.0E-63	AL163247.2	NT	Homo sapiens chromosome 21 segment HS21C047
13020	28859		5.18	1.0E-63	AL163207.2	NT	Homo sapiens chromosome 21 segment HS21C007
6079	19159	32370	0.56	9.0E-64	AW401433.1	EST_HUMAN	UI-HF-BK0-aad-b-09-0-UI.t1 NIH_MGC_36 Homo sapiens cDNA clone IMAGE:3053163 5'
8199	21169	34579	4.61	9.0E-64	AI478186.1	EST_HUMAN	hm50507.x1 NCI CGAP_Kd11 Homo sapiens cDNA clone IMAGE:2161525 3'
1048	14094		2.71	8.0E-64	BE280798.1	EST_HUMAN	601155232F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3139038 5'
6263	19336	32569	3.25	8.0E-64	BE385755.1	EST_HUMAN	60150898F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3910338 5'
12187	25034		6.22	8.0E-64	11418177	NT	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
12239	25070		2.63	8.0E-64	T60651.1	EST_HUMAN	y98802.t1 Striatagene lung (#937210) Homo sapiens cDNA clone IMAGE:79179 5'
3540	16586		0.8	7.0E-64	BE394321.1	EST_HUMAN	601311455F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3633204 5'
4763	17793	30678	3.2	7.0E-64	4507490	NT	Homo sapiens thimet oligopeptidase 1 (THOP1) mRNA
4763	17793	30679	3.2	7.0E-64	4507490	NT	Homo sapiens thimet oligopeptidase 1 (THOP1) mRNA
8096	21032	34430	0.64	7.0E-64	4506786	NT	Homo sapiens IQ motif containing GTPase activating protein 1 (IQGAP1) mRNA
10393	23315	36794	4.76	7.0E-64	Y07848.1	NT	Homo sapiens EWS, gar22, rrp22 and bam22 genes
1735	14765	27748	3.86	6.0E-64	AI651992.1	EST_HUMAN	wb51607.x1 NCI CGAP_GC6 Homo sapiens cDNA clone IMAGE:2309220 3' similar to gb.M16182 BETA-, GLUCURONIDASE PRECURSOR (HUMAN);
1735	14765	27749	3.86	6.0E-64	AI651992.1	EST_HUMAN	wb51607.x1 NCI CGAP_GC6 Homo sapiens cDNA clone IMAGE:2309220 3' similar to gb.M16182 BETA-, GLUCURONIDASE PRECURSOR (HUMAN);
3139	16196	29105	4.25	6.0E-64	AW026445.1	EST_HUMAN	wv13603.x1 NCI CGAP_Brn23 Homo sapiens cDNA clone IMAGE:2529436 3'
3139	16196	29106	4.25	6.0E-64	AW026445.1	EST_HUMAN	wv13603.x1 NCI CGAP_Brn23 Homo sapiens cDNA clone IMAGE:2529436 3'
5703	18798	31973	2.43	6.0E-64	Y18833.1	NT	Homo sapiens MCP-1 gene and enhancer region
5725	18819	31998	2.43	6.0E-64	Y18833.1	NT	Homo sapiens MCP-1 gene and enhancer region
5725	18819	31998	6.33	6.0E-64	M13975.1	NT	Homo sapiens protein kinase C beta-II type (PRKCB1) mRNA, complete cds
5929	19015	32209	0.71	6.0E-64	11422189	NT	Homo sapiens calcitonin receptor (CALCR), mRNA
5929	19015	32210	0.71	6.0E-64	11422189	NT	Homo sapiens calcitonin receptor (CALCR), mRNA
7446	20412	33764	2.95	6.0E-64	11525879	NT	Homo sapiens mesenchyme homeo box 1 (MEOX1), mRNA
7446	20412	33765	2.95	6.0E-64	11525879	NT	Homo sapiens mesenchyme homeo box 1 (MEOX1), mRNA
9682	22635	36091	7.07	6.0E-64	11420555	NT	Homo sapiens acetyl-CoA synthetase (LOC55902), mRNA
9884	22800	36254	1.78	6.0E-64	AF274753.1	NT	Homo sapiens progressive ankylosis-like protein (ANK) mRNA, complete cds
10076	23003	36473	2.44	6.0E-64	S76475.1	NT	hKc [human, brain, mRNA, 2715 nt]
11121	24081	37605	4.48	6.0E-64	11420197	NT	Homo sapiens stromal antigen 3 (STAG3), mRNA
11121	24081	37606	4.48	6.0E-64	11420197	NT	Homo sapiens stromal antigen 3 (STAG3), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11358	16196	29105	1.73	6.0E-64	AW028445.1	EST_HUMAN	wy13603.x1 NCI_CGAP_Bin23 Homo sapiens cDNA clone IMAGE:2529436 3'
11358	16196	29106	1.73	6.0E-64	AW028445.1	EST_HUMAN	wy13603.x1 NCI_CGAP_Bin23 Homo sapiens cDNA clone IMAGE:2529436 3'
12398	25172	31818	9.28	6.0E-64	11528198	NT	Homo sapiens Interleukin 10 receptor, beta (IL10RB), mRNA
821	13879	28829	3.66	5.0E-64	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
821	13879	28830	3.66	5.0E-64	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
1341	14376	27345	0.93	5.0E-64	AB020710.1	NT	Homo sapiens mRNA for KIAA0803 protein, partial cds
1724	14754	27740	1.7	5.0E-64	U89359.1	NT	Human I(3)mbt protein homolog mRNA, complete cds
2837	14509	27483	3.52	5.0E-64	7662205	NT	Homo sapiens KIAA0818 gene product (KIAA0818), mRNA
2837	14509	27484	3.52	5.0E-64	7662205	NT	Homo sapiens KIAA0818 gene product (KIAA0818), mRNA
3983	17023	29934	7.14	5.0E-64	AF017433.1	NT	Homo sapiens putative transcription factor CR63 (CR63) mRNA, partial cds
4132	17164	30063	0.93	5.0E-64	AB020710.1	NT	Homo sapiens mRNA for KIAA0803 protein, partial cds
8125	21062	34460	0.57	4.0E-64	BE794607.1	EST_HUMAN	601690382F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3944397 5'
11164	24122	37650	1.55	4.0E-64	AW813783.1	EST_HUMAN	RC3-ST0197-120200-015-603 ST0197 Homo sapiens cDNA
11164	24122	37651	1.55	4.0E-64	AW813783.1	EST_HUMAN	RC3-ST0197-120200-015-603 ST0197 Homo sapiens cDNA
2208	15223	28243	6.32	3.0E-64	C18895.1	EST_HUMAN	C18895 Human placenta cDNA (TFujiwara) Homo sapiens cDNA clone GEN-569E02 5'
3268	16322	29244	0.72	3.0E-64	BE794381.1	EST_HUMAN	601689565F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943577 5'
3457	16503	29422	1.85	3.0E-64	AV711714.1	EST_HUMAN	AV711714 DCA Homo sapiens cDNA clone DCAAMC01 5'
3457	16503	29423	1.86	3.0E-64	AV711714.1	EST_HUMAN	AV711714 DCA Homo sapiens cDNA clone DCAAMC01 5'
6200	19274	32508	1.36	3.0E-64	Z28273.1	NT	H sapiens isoform 1 gene for L-type calcium channel, exon 28
6475	19540	32786	0.64	3.0E-64	AW500861.1	EST_HUMAN	UI-HF-BP0p-ax-c-05-0-UI.1 NIH_MGC_51 Homo sapiens cDNA clone IMAGE:3073161 5'
6641	19699	32975	2.78	3.0E-64	BF370000.1	EST_HUMAN	RC8-FN0019-290600-011-G11 FN0019 Homo sapiens cDNA
8809	21776	35201	1.78	3.0E-64	AF248953.1	NT	Homo sapiens gdgi matrix protein GM130 (GOLGA2) mRNA, complete cds
8809	21776	35202	1.78	3.0E-64	AF248953.1	NT	Homo sapiens gdgi matrix protein GM130 (GOLGA2) mRNA, complete cds
8840	21807	35225	2.73	3.0E-64	BE206521.1	EST_HUMAN	bb72h12.y1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3047975 5' similar to gb:L08069 DNAAJ
8840	21807	35225	2.73	3.0E-64	BE206521.1	EST_HUMAN	PROTEIN HOMOLOG 2 (HUMAN);
8840	21807	35226	2.73	3.0E-64	BE206521.1	EST_HUMAN	bb72h12.y1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3047975 5' similar to gb:L08069 DNAAJ
9782	22723	36177	1.54	3.0E-64	AL163246.2	NT	PROTEIN HOMOLOG 2 (HUMAN);
9782	22723	36178	1.54	3.0E-64	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
9872	22825	36278	0.8	3.0E-64	AW977384.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C046
9872	22825	36279	0.8	3.0E-64	AW977384.1	EST_HUMAN	EST389493 MAGe resequences, MAGO Homo sapiens cDNA
11988	24875	38471	1.87	3.0E-64	AL163227.2	NT	EST389493 MAGe resequences, MAGO Homo sapiens cDNA
1090	14134	27086	0.95	2.0E-64	AA609940.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C027
1398	14432	27401	1.2	2.0E-64	4757701	NT	af06d08.x1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:1031151 3'
							Homo sapiens eIF4E-like cap-binding protein (4EHP) mRNA

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Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2530	15533		2.05	2.0E-64	A1927030.1	EST_HUMAN	wo87b01.x1 NCL_CGAP_K1d11 Homo sapiens cDNA clone IMAGE:2462281 3' similar to contains element L1 repetitive element ;
2538	15538	28560	3.13	2.0E-64	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
2538	15561	28561	3.13	2.0E-64	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
3801	16841	29748	0.67	2.0E-64	AW958145.1	EST_HUMAN	EST1370215 MAGE resequences, MAGE Homo sapiens cDNA
3801	16841	29749	0.67	2.0E-64	AW958145.1	EST_HUMAN	EST1370215 MAGE resequences, MAGE Homo sapiens cDNA
6121	19199	32424	2.2	2.0E-64	AU124387.1	EST_HUMAN	AU124387 NT2RM2 Homo sapiens cDNA clone NT2RM2002113 5'
6370	19438	32681	1.38	2.0E-64	AF113708.1	NT	Homo sapiens angiotensin 4 (ANG4) mRNA, partial cds
6832	19690	32969	4.02	2.0E-64	BF688537.1	EST_HUMAN	602123474F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4280395 5'
6745	19800	33080	1.5	2.0E-64	A1078387.1	EST_HUMAN	oz29b03.x1 Scores_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:1676717 3'
6859	19912	33208	3.88	2.0E-64	M77185.1	NT	H.sapiens dopamine receptor D5 pseudogene 1, partial cds
8108	21043	34442	0.57	2.0E-64	11431054	NT	Homo sapiens ataxin 2-binding protein 1 (A2BP1), mRNA
8164	21102	34501	0.56	2.0E-64	AW606785.1	EST_HUMAN	QV1-HT0413-010200-059-h12 HT0413 Homo sapiens cDNA
9016	21982	35400	5.69	2.0E-64	11434008	NT	Homo sapiens lymphocyte cytosolic protein 1 (L-plasin) (LCP1), mRNA
9016	21982	35401	5.69	2.0E-64	11434008	NT	Homo sapiens lymphocyte cytosolic protein 1 (L-plasin) (LCP1), mRNA
9495	22459	35899	0.43	2.0E-64	11423508	NT	Homo sapiens hypothetical protein SBB167 (LOC57115), mRNA
9586	22548	35999	0.96	2.0E-64	AU132570.1	EST_HUMAN	AU132570 NT2RP4 Homo sapiens cDNA clone NT2RP4000109 5'
11114	24074	37597	3.74	2.0E-64	BF528114.1	EST_HUMAN	602042882F1 NCL_CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4180556 5'
11391	24337	37868	4.59	2.0E-64	A1922911.1	EST_HUMAN	wn81b06.x1 NCL_CGAP_U11 Homo sapiens cDNA clone IMAGE:2452211 3'
11391	24337	37867	4.59	2.0E-64	A1922911.1	EST_HUMAN	wn81b06.x1 NCL_CGAP_U11 Homo sapiens cDNA clone IMAGE:2452211 3'
11833	24716	38301	1.89	2.0E-64	BE269680.1	EST_HUMAN	601185078F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3542922 5'
11833	24716	38302	1.89	2.0E-64	BE269680.1	EST_HUMAN	601185078F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3542922 5'
12316	25122	31844	1.47	2.0E-64	8567387	NT	Homo sapiens period (Drosophila) homolog 3 (PER3), mRNA
12744	25393		3.54	2.0E-64	H55162.1	EST_HUMAN	CHR220101 Chromosome 22 exon Homo sapiens cDNA clone C22_132 5'
258	13355	26279	1.48	1.0E-64	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
1794	14823	27807	17.02	1.0E-64	A1929419.1	EST_HUMAN	au60c01.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2519136 3' similar to gb:121696_cds1 PROTHYMOSIN ALPHA (HUMAN); contains element MSR1 repetitive element ;
3024	16081	29004	0.81	1.0E-64	4507334	NT	Homo sapiens synaptotagmin 1 (SYNJ1); mRNA
3522	16568	29492	5.73	1.0E-64	AF196779.1	NT	Homo sapiens transcription factor IGHE enhancer 3, JM11 protein, JM4 protein, JM5 protein, T54 protein, JM10 protein, A4 differentiation-dependent protein, triple LIM domain protein 6, and synaptophysin genes, complete cds; and L-type calcium channel a>
3598	16643	29562	1.38	1.0E-64	AF228527.1	NT	Homo sapiens TRIAD3 mRNA, partial cds
3598	16643	29563	1.38	1.0E-64	AF228527.1	NT	Homo sapiens TRIAD3 mRNA, partial cds
3917	16957	29870	2	1.0E-64	8822829	NT	Homo sapiens hypothetical protein FLJ11026 (FLJ11026), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10424	23346	36831	0.68	1.0E-64	AA042975.1	EST_HUMAN	z453f08.s1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:486587 3'
12288	25104		2.03	1.0E-64	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
2284	15297	28321	1.64	9.0E-65	X89211.1	NT	H.sapiens DNA for endogenous retroviral like element
2284	15297	28322	1.64	9.0E-65	X89211.1	NT	H.sapiens DNA for endogenous retroviral like element
11863	24745		35.25	9.0E-65	BF330676.1	EST_HUMAN	QV4-BT0257-081199-017-q03 BT0257 Homo sapiens cDNA
11837	24720	38305	7.27	8.0E-65	AI929244.1	EST_HUMAN	au58h07.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2519005 3' similar to SW.RL21_HUMAN P46778 60S RIBOSOMAL PROTEIN L21.;
10515	23437	36936	2.13	7.0E-65	BE081653.1	EST_HUMAN	QV2-BT0635-240400-162-c02 BT0635 Homo sapiens cDNA
1059	14105	27056	2.73	6.0E-65	AV721898.1	EST_HUMAN	AV721898 HTB Homo sapiens cDNA clone HTBBZC06 5'
1938	14962		12.23	6.0E-65	AA550929.1	EST_HUMAN	ri86d10.s1 NCL CGAP_Pr11 Homo sapiens cDNA clone IMAGE:998379 similar to gb:K03002 60S RIBOSOMAL PROTEIN L32 (HUMAN);
6721	19777	33056	0.87	6.0E-65	AA503892.1	EST_HUMAN	nh37b07.s1 NCL CGAP_Pr5 Homo sapiens cDNA clone IMAGE:954517
9098	22064	35489	2.49	6.0E-65	AW083252.1	EST_HUMAN	xc07b09.x1 NCL CGAP_Co21 Homo sapiens cDNA clone IMAGE:2583545 3' similar to TR:Q63306 Q63306 LONG INTERSPERSED REPETITIVE DNA CONTAINING 7 ORFS. ; contains L1.b2 L1 repetitive element.;
9365	22330	35759	4.16	6.0E-65	AA427878.1	EST_HUMAN	zw53b08.s1 Soares_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:773747 3'
9365	22330	35760	4.16	6.0E-65	AA427878.1	EST_HUMAN	zw53b08.s1 Soares_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:773747 3'
9429	22393	35832	1.08	6.0E-65	AI085314.1	EST_HUMAN	qt18h05.x1 NCL CGAP_Bm25 Homo sapiens cDNA clone IMAGE:1750425 3'
9429	22393	35833	1.08	6.0E-65	AI085314.1	EST_HUMAN	qt18h05.x1 NCL CGAP_Bm25 Homo sapiens cDNA clone IMAGE:1750425 3'
11220	24173	37699	2.59	6.0E-65	BE567816.1	EST_HUMAN	601340485F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3882677 5'
11378	24325	37854	1.51	6.0E-65	BF340825.1	EST_HUMAN	602037721F1 NCL CGAP_Bm64 Homo sapiens cDNA clone IMAGE:4185877 5'
11825	24708	38291	1.8	6.0E-65	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
632	13697	26617	1.92	5.0E-65	AF064604.1	NT	Homo sapiens KE03 protein mRNA, partial cds
1355	14390	27359	1.22	5.0E-65	7661951	NT	Homo sapiens KIAA0156 gene product (KIAA0156), mRNA
1355	14390	27360	1.22	5.0E-65	7661951	NT	Homo sapiens KIAA0156 gene product (KIAA0156), mRNA
2164	15180	28200	1.51	5.0E-65	AB033768.1	NT	Homo sapiens HPAD-colony10 mRNA for peptidylarginine deiminase type I, complete cds
3269	16323	29245	2.13	5.0E-65	4507848	NT	Homo sapiens ubiquitin specific protease 13 (isopeptidase T-3) (USP13) mRNA
3269	16323	29246	2.13	5.0E-65	4507848	NT	Homo sapiens ubiquitin specific protease 13 (isopeptidase T-3) (USP13) mRNA
7052	20074	33381	1.18	5.0E-65	4504606	NT	Homo sapiens interferon-related developmental regulator 1 (IFRD1), mRNA
10833	23754	37253	1.28	5.0E-65	AF009668.1	NT	Multiple sclerosis associated retrovirus polyprotein (pol) mRNA, partial cds
195	13296	26224	2.33	4.0E-65	AL120419.1	EST_HUMAN	DKFZp781G108.t1 761 (synonym: hamy2) Homo sapiens cDNA clone DKFZp761G108 5'
747	13808	26748	1.29	4.0E-65	AI266468.1	EST_HUMAN	qm46e01.x1 Soares_placenta_8to9weeks_2Nbl-IP8to9W Homo sapiens cDNA clone IMAGE:1991800 3'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E- Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
747	13808	26749	1.29	4.0E-65	A1266468.1	EST_HUMAN	qm46e01.x1 Soares_placenta_8to9weeks_2NBHP809W Homo sapiens cDNA clone IMAGE:1891800 3'
1080	14124	27077	1.51	4.0E-65	4828735	NT	Homo sapiens fragile X mental retardation, autosomal homolog 1 (FXR1), mRNA
1482	14515	27489	15.66	4.0E-65	4506638	NT	Homo sapiens ribosomal protein L34 (RPL34) mRNA
3971	17011	29925	0.97	4.0E-65	AW983185.1	EST_HUMAN	RC2-BN0033-160200-073-a03 BN0033 Homo sapiens cDNA
6279	19351	32585	4.17	4.0E-65	AB033093.1	NT	Homo sapiens mRNA for KIAA1267 protein, partial cds
6279	19351	32586	4.17	4.0E-65	AB033093.1	NT	Homo sapiens mRNA for KIAA1267 protein, partial cds
7289	20261	33595	0.62	4.0E-65	AY008372.1	NT	Homo sapiens oxysterol binding protein-related protein 3 (ORP3) mRNA, complete cds
7324	20295	33638	0.84	4.0E-65	M19879.1	NT	Human c12orf127 gene, exons 10 and 11, and L1 and Alu repeats
7429	20396	33748	2.48	4.0E-65	11545780	NT	Homo sapiens hypothetical protein FLJ22087 (FLJ22087), mRNA
7797	20749	34124	0.58	4.0E-65	U40372.1	NT	Human 3', 5' cyclic nucleotide phosphodiesterase (HSPDE1C3A) mRNA, partial cds
7797	20749	34125	0.58	4.0E-65	U40372.1	NT	Human 3', 5' cyclic nucleotide phosphodiesterase (HSPDE1C3A) mRNA, partial cds
8118	21055	34452	0.81	4.0E-65	U39656.1	NT	Human MAP kinase 6 (MKK6) mRNA, complete cds
8174	21144	34549	0.78	4.0E-65	5453765	NT	Homo sapiens nel (chicken)-like 2 (NELL2), mRNA
8174	21144	34550	0.78	4.0E-65	5453765	NT	Homo sapiens nel (chicken)-like 2 (NELL2), mRNA
9501	22465	35905	1.34	4.0E-65	11429127	NT	Homo sapiens Janus kinase 2 (e protein tyrosine kinase) (JAK2), mRNA
10945	23865		2.65	4.0E-65	AJ277546.2	NT	Homo sapiens WEE1 gene for protein kinase and partial ZNF143 gene for zinc finger transcription factor
11301	24251	37777	2.99	4.0E-65	AV738764.1	EST_HUMAN	AV738764 CB Homo sapiens cDNA clone CBCCE05 5'
11434	24378	37918	6.02	4.0E-65	AF110846.1	NT	Homo sapiens PRO1474 mRNA, complete cds
12606	14124	27077	1.79	4.0E-65	4828735	NT	Homo sapiens fragile X mental retardation, autosomal homolog 1 (FXR1), mRNA
13091	13286	26224	1.6	4.0E-65	AL120419.1	EST_HUMAN	DKFZp761G108_r1 761 (synonym: hamy2) Homo sapiens cDNA clone DKFZp761G108 5'
97	13214	26139	3.16	3.0E-65	5031976	NT	Homo sapiens pre-B-cell colony-enhancing factor (PBEF) mRNA
98	13214	26139	5.52	3.0E-65	5031976	NT	Homo sapiens pre-B-cell colony-enhancing factor (PBEF) mRNA
1236	15819		22.13	3.0E-65	X78932.1	NT	H sapiens HZF9 mRNA for zinc finger protein
1840	14867	27866	1.7	3.0E-65	A1000692.1	EST_HUMAN	ov23f03.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1638173 3' similar to contains element
3003	16061	28979	0.74	3.0E-65	D87078.2	NT	MSR1 repetitive element;
3290	16343	29264	0.68	3.0E-65	4504950	NT	Homo sapiens mRNA for KIAA0235 protein, partial cds
3734	16776	29688	1.61	3.0E-65	A1000692.1	EST_HUMAN	Homo sapiens laminin, beta 1 (LAMBT1), mRNA
4879	17700	30588	1.33	3.0E-65	6912385	NT	ov23f03.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1638173 3' similar to contains element
10429	23351	36835	1.42	3.0E-65	BE787366.1	EST_HUMAN	MSR1 repetitive element;
							Homo sapiens rab6 GTPase activating protein (GAP and centrosome-associated) (GAPCENA), mRNA
							601479686F.1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3882405 5'

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11719	23916	37433	8.57	3.0E-65	AA330006.1	EST_HUMAN	zw65a06.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:781042 5'
3415	16463	29384	6.08	2.0E-65	BF680294.1	EST_HUMAN	602155062F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4295968 5'
6896	19743		4.55	2.0E-65	BE263373.1	EST_HUMAN	601190883F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3534741 5'
7339	20310	33653	27.64	2.0E-65	BF76922.1	EST_HUMAN	602134359F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4289295 5'
9197	22163	35592	1.26	2.0E-65	AK024463.1	NT	Homo sapiens mRNA for FLJ00056 protein, partial cds
9197	22163	35593	1.26	2.0E-65	AK024463.1	NT	Homo sapiens mRNA for FLJ00056 protein, partial cds
12238	25059		2.75	2.0E-65	AA307904.1	EST_HUMAN	EST178755 Colon carcinoma (HCC) cell line Homo sapiens cDNA 5' end similar to endogenous retrovirus
12708	25728		1.95	2.0E-65	BF246086.1	EST_HUMAN	601854033F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4073769 5'
540	13611	26530	1.54	1.0E-65	7657495	NT	Homo sapiens putative Rab5 GDP/GTP exchange factor homologue (RABEX5), mRNA
2056	15075	28095	1.07	1.0E-65	AB040946.1	NT	Homo sapiens mRNA for KIAA1513 protein, partial cds
3355	16434	29361	0.8	1.0E-65	BE466881.1	EST_HUMAN	h224a09.x1 NCI_CGAP_G06 Homo sapiens cDNA clone IMAGE:3208888 3'
4023	17061	29962	1.71	1.0E-65	4504082	NT	Homo sapiens glycican 4 (GPC4) mRNA
4023	17061	29963	1.71	1.0E-65	4504082	NT	Homo sapiens glycican 4 (GPC4) mRNA
4234	17263	30147	2.4	1.0E-65	AW029340.1	EST_HUMAN	wx09cd09.x1 NCI_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2543152 3'
4234	17263	30148	2.4	1.0E-65	AW029340.1	EST_HUMAN	wx09cd09.x1 NCI_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2543152 3'
5358	18463	31332	0.54	1.0E-65	BE089509.1	EST_HUMAN	QV0-BT0702-170400-194-09 BT0702 Homo sapiens cDNA
5358	18463	31333	0.54	1.0E-65	BE089509.1	EST_HUMAN	QV0-BT0702-170400-194-09 BT0702 Homo sapiens cDNA
5554	18651	31595	0.61	1.0E-65	AI243738.1	EST_HUMAN	qh88h07.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1854109 3' similar to TR:Q07823
8597	21565	34980	5.47	1.0E-65	AW820481.1	EST_HUMAN	Q07823 MAC30 PROTEIN
8597	21565	34981	5.47	1.0E-65	AW820481.1	EST_HUMAN	QV2-ST0298-140200-042-f12 ST0298 Homo sapiens cDNA
8623	21591	35009	2.16	1.0E-65	BE732118.1	EST_HUMAN	QV2-ST0298-140200-042-f12 ST0298 Homo sapiens cDNA
8623	21591	35010	2.16	1.0E-65	BE732118.1	EST_HUMAN	601566124F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3841012 5'
8662	21630	35050	2.14	1.0E-65	AU141285.1	EST_HUMAN	601566124F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3841012 5'
8662	21630	35051	2.14	1.0E-65	AU141285.1	EST_HUMAN	601566124F1 NIH_MGC_21 Homo sapiens cDNA clone THYRO1000356 5'
9192	22158	35586	1.94	1.0E-65	BF698707.1	EST_HUMAN	AU141285 THYRO1 Homo sapiens cDNA clone THYRO1000356 5'
9374	22339	35769	2.25	1.0E-65	AU129040.1	EST_HUMAN	602126239F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4283313 5'
9374	22339	35770	2.25	1.0E-65	AU129040.1	EST_HUMAN	AU129040 NT2RP2 Homo sapiens cDNA clone NT2RP2004714 5'
9386	22351		2.52	1.0E-65	11431994	NT	AU129040 NT2RP2 Homo sapiens cDNA clone NT2RP2004714 5'
							Homo sapiens inositol 1,4,5-trisphosphate receptor, type 1 (ITPR1), mRNA
9832	22681	36136	5.48	1.0E-65	AI191716.1	EST_HUMAN	qd56a02.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1733450 3' similar to gb:M29581 ZINC FINGER PROTEIN 8 (HUMAN); contains MER19.11 MER19 repetitive element
10245	23170	36859	1.28	1.0E-65	AU153783.1	EST_HUMAN	AU153783 NT2RP3 Homo sapiens cDNA clone NT2RP3004016 3'
10665	23587	37085	0.64	1.0E-65	AA069559.1	EST_HUMAN	zr75a04.r1 Soares_pineal_gland_N3HPG Homo sapiens cDNA clone IMAGE:382734 5'

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Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10935	23855	37371	1.02	1.0E-65	AB037832.1	NT	Homo sapiens mRNA for KIAA1411 protein, partial cds
11011	23976	37501	7.57	1.0E-65	M26167.1	NT	Human platelet factor 4 variation 1 (PF4var1) gene, complete cds
11131	24091	37620	10.37	1.0E-65	4506660	NT	Homo sapiens ribosomal protein L7a (RPL7A) mRNA
11465	24408	37955	2.43	1.0E-65	BF698707.1	EST_HUMAN	602126239F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4283313 5'
11545	24486	38040	1.89	1.0E-65	AI621017.1	EST_HUMAN	ts76a06.x1 NCL_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2237170 3' similar to gb.L15533_maf1 PANCREATITIS ASSOCIATED PROTEIN 1 PRECURSOR (HUMAN);
12289	25105		3.13	1.0E-65	11418041	NT	Homo sapiens TNF-inducible protein CG12-1 (CG12-1), mRNA
12391	25168	31815	7.2	1.0E-65	11418322	NT	Homo sapiens cadherin EGF LAG seven-pass G-type receptor 1 (CELSR1), mRNA
12799	25427		1.87	1.0E-65	11418248	NT	Homo sapiens sulfoltransferase-related protein (SULTX3), mRNA
72	13190	26110	0.94	9.0E-66	AL160311.1	NT	Novel human gene mapping to chromosome 22
72	13190	26111	0.94	9.0E-66	AL160311.1	NT	Novel human gene mapping to chromosome 22
1358	14391	27361	0.93	9.0E-66	5031980	NT	Homo sapiens 26S proteasome-associated pad1 homolog (POH1) mRNA
1356	14391	27362	0.93	9.0E-66	5031980	NT	Homo sapiens 26S proteasome-associated pad1 homolog (POH1) mRNA
1480	14513		6.17	9.0E-66	M87299.1	NT	Human transposon-like element, partial
3916	16956	29868	0.74	9.0E-66	M72393.1	NT	Human calcium-dependent phospholipid-binding protein (PLA2) mRNA, complete cds
3916	16956	29869	0.74	9.0E-66	M72393.1	NT	Human calcium-dependent phospholipid-binding protein (PLA2) mRNA, complete cds
4719	17739	30631	0.73	9.0E-66	AL137163.1	NT	Novel human gene mapping to chromosome X
4717	17737	30629	1.58	8.0E-66	AA424304.1	EST_HUMAN	zv80c05.r1 Soares NIH-IMPu_S1 Homo sapiens cDNA clone IMAGE:767048 5'
11675	24841		1.48	7.0E-66	BE064410.1	EST_HUMAN	RC4-BT0311-141199-011-h06 BT0311 Homo sapiens cDNA
4393	17421	30304	1.01	6.0E-66	AI924653.1	EST_HUMAN	wn57h07.x1 NCL_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2449597 3' similar to WP.F15G9.4A CE18595;
4393	17421	30305	1.01	6.0E-66	AI924653.1	EST_HUMAN	wn57h07.x1 NCL_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2449597 3' similar to WP.F15G9.4A CE18595;
4393	17421	30306	1.01	6.0E-66	AI924653.1	EST_HUMAN	wn57h07.x1 NCL_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2449597 3' similar to WP.F15G9.4A CE18595;
8777	21744		0.62	6.0E-66	BE179563.1	EST_HUMAN	PM2-HT0604-030300-001-b06 HT0604 Homo sapiens cDNA
11493	24436	37985	4.18	6.0E-66	X69181.1	NT	H. sapiens mRNA for ribosomal protein L31
1369	14403	27373	1.94	5.0E-66	BE064410.1	EST_HUMAN	RC4-BT0311-141199-011-h06 BT0311 Homo sapiens cDNA
9549	22593	36041	15.54	5.0E-66	11420557	NT	Homo sapiens thyroid hormone receptor binding protein (AIB3), mRNA
791	13850	26797	1.39	4.0E-66	6679816	NT	Mus musculus fragile X mental retardation syndrome 1 homolog (Fmr1), mRNA
1750	14779	27764	1.16	4.0E-66	AW897798.1	EST_HUMAN	RC1-NN0063-100500-022-a02 NN0063 Homo sapiens cDNA
2288	15301	28325	1.84	4.0E-66	X89211.1	NT	H. sapiens DNA for endogenous retroviral like element
2481	15485		2.82	4.0E-66	AJ223364.1	NT	Homo sapiens germ-line DNA upstream of Jkappa locus
4823	17840		3.19	4.0E-66	9635487	NT	Human endogenous retrovirus, complete genome

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5630	18726	31887	3.96	4.0E-66	11428843	NT	Homo sapiens methylene tetrahydrofolate dehydrogenase (NAD+ dependent), methenyltetrahydrofolate cyclohydrolase (MTHFD2), mRNA
5835	18925	32109	0.78	4.0E-66	AW939119.1	EST_HUMAN	QV1-DT0069-110200-087-g10 DT0069 Homo sapiens cDNA
7036	18368	31255	4.69	4.0E-66	AW965473.1	EST_HUMAN	EST377546 MAGE resequences, MAGI Homo sapiens cDNA
7338	20309	33652	7.18	4.0E-66	U78168.1	NT	Homo sapiens cAMP-regulated guanine nucleotide exchange factor 1 (cAMP-GEF1) mRNA, complete cds
7891	18726	31887	0.98	4.0E-66	11428843	NT	Homo sapiens methylene tetrahydrofolate dehydrogenase (NAD+ dependent), methenyltetrahydrofolate cyclohydrolase (MTHFD2), mRNA
8413	21382	34789	6.46	4.0E-66	11421838	NT	Homo sapiens hypothetical protein FLJ20116 (FLJ20116), mRNA
8472	21441	34859	1.46	4.0E-66	X57147.1	NT	Human endogenous retrovirus PHE.1 (ERV9)
11020	23985	37512	1.75	4.0E-66	BF507493.1	EST_HUMAN	U1-H-BW1-amr-a-10-0-J1.ctl_NCL_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3070747 3'
11706	24671	38248	1.53	4.0E-66	AB023215.1	NT	Homo sapiens mRNA for KIAA0988 protein, partial cds
1424	14457	27432	5.89	3.0E-66	4502098	NT	Homo sapiens solute carrier family 25 (mitochondrial carrier, adenine nucleotide translocator), member 5 (SLC25A5), nuclear gene encoding mitochondrial protein, mRNA
1424	14457	27433	5.89	3.0E-66	4502098	NT	Homo sapiens solute carrier family 25 (mitochondrial carrier, adenine nucleotide translocator), member 5 (SLC25A5), nuclear gene encoding mitochondrial protein, mRNA
1999	15020	28027	1.07	3.0E-66	N55323.1	EST_HUMAN	yz27g12.1 Scores_multiple sclerosis_2NBHMSP Homo sapiens cDNA clone IMAGE:284328 5' similar to SW:H2B1_TIGCA P35068 HISTONE H2B.1/H2B.2. [2] PIR:B66612 ;
1999	15020	28028	1.07	3.0E-66	N55323.1	EST_HUMAN	yz27g12.1 Scores_multiple sclerosis_2NBHMSP Homo sapiens cDNA clone IMAGE:284326 5' similar to SW:H2B1_TIGCA P35068 HISTONE H2B.1/H2B.2. [2] PIR:B66612 ;
1999	15020	28029	1.07	3.0E-66	N55323.1	EST_HUMAN	yz27g12.1 Scores_multiple sclerosis_2NBHMSP Homo sapiens cDNA clone IMAGE:284328 5' similar to SW:H2B1_TIGCA P35068 HISTONE H2B.1/H2B.2. [2] PIR:B66612 ;
2718	18712	28729	4.78	3.0E-66	11141880	NT	Homo sapiens TGFbeta-induced transcription factor 2 (TGIF2), mRNA
3134	18191	29101	6.79	3.0E-66	7662223	NT	Homo sapiens KIAA0649 gene product (KIAA0649), mRNA
5542	18639	31579	0.78	3.0E-66	AB020699.1	NT	Homo sapiens mRNA for KIAA0892 protein, partial cds
5657	18763	31920	0.79	3.0E-66	M13975.1	NT	Homo sapiens protein kinase C beta-II type (PRKCB1) mRNA, complete cds
5687	18956	32143	1.49	3.0E-66	11417946	NT	Homo sapiens NIPSNAP, C. elegans, homolog 1 (NIPSNAP1), mRNA
5867	18956	32144	1.49	3.0E-66	11417946	NT	Homo sapiens NIPSNAP, C. elegans, homolog 1 (NIPSNAP1), mRNA
7680	20620	33985	4.07	3.0E-66	X92211.1	NT	H. sapiens gamma immunoglobulin heavy chain, variable region, (15-1)
9883	22836	36290	0.7	3.0E-66	AK024453.1	NT	Homo sapiens mRNA for FLJ00045 protein, partial cds
10077	23004	36474	0.62	3.0E-66	11417118	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
10433	23355	36841	0.69	3.0E-66	7019480	NT	Homo sapiens protocadherin beta 1 (PCDH-beta1), mRNA
10899	23809	37315	0.97	3.0E-66	AF155659.1	NT	Homo sapiens polydiphom cofactor biosynthesis protein E (MCBP-E) mRNA, complete cds

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11838	24721	38306	5.1	3.0E-66	5453949	NT	Homo sapiens protein phosphatase 2, regulatory subunit B (B56), alpha isoform (PPP2R5A) mRNA
13109	25629	31647	1.38	3.0E-66	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
53	13173	26082	1.94	2.0E-66	7657334	NT	Homo sapiens Misschaper/NIK-related kinase (MINK), mRNA
53	13173	26083	1.94	2.0E-66	7657334	NT	Homo sapiens Misschaper/NIK-related kinase (MINK), mRNA
422	13117	26015	0.7	2.0E-66	4505524	NT	Homo sapiens origin recognition complex, subunit 5 (yeast homolog)-like (ORC5L) mRNA, and translated products
422	13117	26016	0.7	2.0E-66	4505524	NT	Homo sapiens origin recognition complex, subunit 5 (yeast homolog)-like (ORC5L) mRNA, and translated products
1843	14869	27867	2.18	2.0E-66	AL163301.2	NT	Homo sapiens chromosome 21 segment HS21C101
2241	15255	28279	2.33	2.0E-66	X65859.1	NT	H. sapiens pseudogene for the low affinity IL-8 receptor
2866	16044	28665	1.39	2.0E-66	X65859.1	NT	H. sapiens pseudogene for the low affinity IL-8 receptor
3532	16578	29501	0.79	2.0E-66	8923290	NT	Homo sapiens hypodermal protein FLJ20309 (FLJ20309), mRNA
3777	16819	29727	0.9	2.0E-66	AL117233.1	NT	Novel human gene mapping to chromosome 1
4885	17708	30598	36.62	2.0E-66	AJ133287.2	NT	Homo sapiens HLA-B gene for human leucocyte antigen B
4885	17708	30599	36.62	2.0E-66	AJ133287.2	NT	Homo sapiens HLA-B gene for human leucocyte antigen B
5914	19000	32191	0.82	2.0E-66	AW968854.1	EST_HUMAN	EST380930 IMAGE sequences, MAGJ Homo sapiens cDNA
5914	19000	32192	0.82	2.0E-66	AW968854.1	EST_HUMAN	EST380930 IMAGE sequences, MAGJ Homo sapiens cDNA
9199	22165	35565	2.86	2.0E-66	N45480.1	EST_HUMAN	Yy69c02.1 Soares, multiple sclerosis, 2N6HMSF Homo sapiens cDNA clone IMAGE:277826 5'
12614	25941		2.61	2.0E-66	11418318	NT	Homo sapiens G-2 and S-phase expressed 1 (GTSE1), mRNA
2904	15963	28885	1.58	1.0E-66	AV717817.1	EST_HUMAN	AV717817 DCB Homo sapiens cDNA clone DCBADC07 5'
2904	15963	28886	1.58	1.0E-66	AV717817.1	EST_HUMAN	AV717817 DCB Homo sapiens cDNA clone DCBADC07 5'
4412	15963	28885	3.59	1.0E-66	AV717817.1	EST_HUMAN	AV717817 DCB Homo sapiens cDNA clone DCBADC07 5'
4412	15963	28886	3.59	1.0E-66	AV717817.1	EST_HUMAN	AV717817 DCB Homo sapiens cDNA clone DCBADC07 5'
5455	18557	31468	5.82	1.0E-66	BF673088.1	EST_HUMAN	602152996F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4294151 5'
5875	18984	32154	0.84	1.0E-66	BE765232.1	EST_HUMAN	IL2-NT0101-280700-116-E04 NT0101 Homo sapiens cDNA
5875	18984	32155	0.84	1.0E-66	BE765232.1	EST_HUMAN	IL2-NT0101-280700-116-E04 NT0101 Homo sapiens cDNA
7125	20058	33364	1.09	1.0E-66	BF328623.1	EST_HUMAN	RC5-BN0193-010900-034-G06 BN0193 Homo sapiens cDNA
8801	21768	35192	1.2	1.0E-66	AA668856.1	EST_HUMAN	aa80e04.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:827262 3'
9781	22722	36176	0.7	1.0E-66	AA018826.1	EST_HUMAN	ze57e12.r1 Soares, relina N2B4HR Homo sapiens cDNA clone IMAGE:363118 5'
10737	23059	37153	0.9	1.0E-66	AV748749.1	EST_HUMAN	AV748749 NPC Homo sapiens cDNA clone NPCBVA05 5'
10737	23059	37154	0.9	1.0E-66	AV748749.1	EST_HUMAN	AV748749 NPC Homo sapiens cDNA clone NPCBVA05 5'
10993	23913	37428	0.44	1.0E-66	BE044595.1	EST_HUMAN	h047h02.x1 Soares, NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:3040563 3'

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11290	24240	37767	2.47	1.0E-66	AF111167.2	NT	Homo sapiens jun dimerization protein gene, partial cds; cfos gene, complete cds; and unknown gene
11853	24735	38322	1.69	1.0E-68	AW968744.1	EST_HUMAN	EST380820 MAGE resequences, MAG.J Homo sapiens cDNA
12386	25170		2.75	9.0E-67	11418177	NT	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
380	13493	28425	2.51	7.0E-67	AW162232.1	EST_HUMAN	au75d02.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2782083 3' similar to gb:M37104 ATP SYNTHASE COUPLING FACTOR 6, MITOCHONDRIAL PRECURSOR (HUMAN);
1382	14416	27386	1.23	7.0E-67	AA383416.1	EST_HUMAN	EST96812 Testis 1 Homo sapiens cDNA 5' and similar to C. elegans hypothetical protein, cosmid ZK353
1558	14590	27561	1.19	7.0E-67	W85947.1	EST_HUMAN	zh56b05.r1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:416049 5'
1558	14590	27562	1.19	7.0E-67	W85947.1	EST_HUMAN	zh56b05.r1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:416049 5'
2048	15087	28086	1.02	7.0E-67	7657243	NT	Homo sapiens inositol 1,3,4-triphosphate 5/6 kinase (ITPK1), mRNA
2048	15087	28087	1.02	7.0E-67	7657243	NT	Homo sapiens inositol 1,3,4-triphosphate 5/6 kinase (ITPK1), mRNA
2821	13493	28425	2.78	7.0E-67	AW162232.1	EST_HUMAN	au75d02.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2782083 3' similar to gb:M37104 ATP SYNTHASE COUPLING FACTOR 6, MITOCHONDRIAL PRECURSOR (HUMAN);
6199	19273	32507	0.96	7.0E-67	10190695	NT	Homo sapiens zinc finger protein 304 (ZNF304), mRNA
6401	19469	32716	1.92	7.0E-67	11425572	NT	Homo sapiens adaptor-related protein complex 2, beta 1 subunit (AP2B1), mRNA
6401	19469	32717	1.92	7.0E-67	11425572	NT	Homo sapiens adaptor-related protein complex 2, beta 1 subunit (AP2B1), mRNA
6885	19937	33233	1.14	7.0E-67	4885084	NT	Homo sapiens A TPase, H+ transporting, lysosomal (vacuolar proton pump) non-catalytic accessory protein 1A (110/116kd) (ATP6N1A), mRNA
7893	20836	34216	1.13	7.0E-67	11419212	NT	Homo sapiens mitochondrial carrier family protein (LOC55972), mRNA
7893	20836	34217	1.13	7.0E-67	11419212	NT	Homo sapiens mitochondrial carrier family protein (LOC55972), mRNA
8686	21634	35055	0.69	7.0E-67	455732	NT	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA
9284	22250	35681	0.73	7.0E-67	10835044	NT	Homo sapiens retinaldehyde dehydrogenase 2 (RALDH2), mRNA
11985	24882	38458	2.45	7.0E-67	U82486.1	NT	Human cytochrome oxidase subunit 1A (COX6A1P) pseudogene, complete cds
12169	25019	38619	1.92	7.0E-67	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
12169	25019	38620	1.92	7.0E-67	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
12639	25323	31789	1.66	7.0E-67	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
13009	25581		1.44	7.0E-67	11421527	NT	Homo sapiens calcium channel, voltage-dependent, alpha 2/delta subunit 1 (CACNA2D1), mRNA
561	13631	26548	1.19	6.0E-67	X68968.1	NT	H. sapiens mRNA for acetyl-CoA carboxylase
796	13855	26802	1.7	6.0E-67	Z17227.1	NT	Homo sapiens mRNA for transmembrane receptor protein
1278	14313	27274	2.06	6.0E-67	Y14320.1	NT	Homo sapiens PMP69 gene, exons 3,4,5,6 & 7
3183	16238	28156	1.16	6.0E-67	4508434	NT	Homo sapiens retinoblastoma 1 (including osteosarcoma) (RB1) mRNA
3451	19497	29414	1.33	6.0E-67	4507332	NT	Homo sapiens Synapsin III (SYN3) mRNA, and translated products
3451	19497	29415	1.33	6.0E-67	4507332	NT	Homo sapiens Synapsin III (SYN3) mRNA, and translated products

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4152	17183	30069	0.79	6.0E-67	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
4152	17183	30070	0.79	6.0E-67	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
4734	17754	30647	3.56	6.0E-67	7657020	NT	Homo sapiens DKFZp434P211 protein (DKFZP434P211), mRNA
4734	17754	30648	3.56	6.0E-67	7657020	NT	Homo sapiens DKFZp434P211 protein (DKFZP434P211), mRNA
5242	18250	31121	0.89	6.0E-67	AF016898.1	NT	Homo sapiens B-ATF gene, complete cds
5242	18250	31122	0.99	6.0E-67	AF016898.1	NT	Homo sapiens B-ATF gene, complete cds
3235	16290	28212	2.02	5.0E-67	AF009660.1	NT	Homo sapiens T cell receptor beta locus, TCRBV7S3A2 to TCRBV12S2 region
11329	24279		13.19	5.0E-67	BE010038.1	EST_HUMAN	PM3-BN0176-100400-001-g04 BN0176 Homo sapiens cDNA
1331	14366	27335	2.25	4.0E-67	R90819.1	EST_HUMAN	yo2d41.1 Soares adult brain N2b4H855Y Homo sapiens cDNA clone IMAGE:167253 5'
8355	21324	34736	0.89	4.0E-67	A1733032.1	EST_HUMAN	Q06730 ZINC FINGER PROTEIN 33A ;
8725	21693		1.18	4.0E-67	BF357321.1	EST_HUMAN	RC0-HT0934-150900-028-c03 HT0934 Homo sapiens cDNA
11403	24347		1.48	4.0E-67	AA714294.1	EST_HUMAN	ntw06a01.s1 NCL CGAP SS1 Homo sapiens cDNA clone IMAGE:1238472 3' similar to TR:O10385 O10385
2824	13699	26620	1.16	3.0E-67	AA333768.1	EST_HUMAN	PRO-POL-DUTPASE POLYPROTEIN ;
4723	17743	30634	2.52	3.0E-67	AW869159.1	EST_HUMAN	EST137803 Embryo, 9 week Homo sapiens cDNA 5' end
4753	17773		1.03	3.0E-67	AL163279.2	NT	MR3-SN0066-040500-008-f01 SN0066 Homo sapiens cDNA
8522	21490	34805	1.15	3.0E-67	BF196068.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C079
11598	24528		15.35	3.0E-67	AA927874.1	EST_HUMAN	hr81f05.x1 NCL CGAP Kid11 Homo sapiens cDNA clone IMAGE:3134913 3' similar to SW:RHOP_MOUSE
190	13291	26217	0.97	2.0E-67	BE348354.1	EST_HUMAN	Q61085 GTP-RHO BINDING PROTEIN 1 ;
846	13902	26860	6.48	2.0E-67	AW816405.1	EST_HUMAN	om18b07.s1 Soares NFL_T_GBC.S1 Homo sapiens cDNA clone IMAGE:1541365 3'
1107	14151		1.26	2.0E-67	AF167460.1	NT	hw16g09.x1 NCL CGAP Lu24 Homo sapiens cDNA clone IMAGE:3163136 3' similar to WP:F23H11.9
1901	14925	27922	1.26	2.0E-67	BE303037.1	EST_HUMAN	CE09617 ;
1901	14925	27923	1.26	2.0E-67	BE303037.1	EST_HUMAN	QV4-ST0234-181199-037-f05 ST0234 Homo sapiens cDNA
2251	15265	28291	0.9	2.0E-67	11422946	NT	Homo sapiens double stranded RNA activated protein kinase (PKR) gene, exons 2a, 2, 3, and 4
2251	15265	28292	0.9	2.0E-67	11422946	NT	Homo sapiens double stranded RNA activated protein kinase (PKR) gene, exons 2a, 2, 3, and 4
2394	15401	28428	1.16	2.0E-67	AF309561.1	NT	ba72g05.y1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2805976 5' similar to TR:O94892 O94892
2438	15445	28463	1.36	2.0E-67	4758785	NT	KIAA0798 PROTEIN ;
3481	16527	29452	3.78	2.0E-67	AA625755.1	EST_HUMAN	ba72g05.y1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2905976 5' similar to TR:O94892 O94892
4027	17065	29856	2.7	2.0E-67	AL163300.2	NT	KIAA0798 PROTEIN ;
							ba72g05.y1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2905976 5' similar to TR:O94892 O94892
							KIAA0798 PROTEIN ;
							Homo sapiens hypothetical protein dJ462023.2 (DJ462023.2), mRNA
							Homo sapiens hypothetical protein dJ462023.2 (DJ462023.2), mRNA
							Homo sapiens KRAB zinc finger protein ZFQR mRNA, complete cds
							Homo sapiens developmentally regulated GTP-binding protein 1 (DRG1), mRNA
							zu91g01.s1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:745592 3'
							Homo sapiens chromosome 21 segment HS21C100

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Table 4
Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriplor
6190	19284	32500	0.77	2.0E-67	AL049784.1	NT	Novel human gene mapping to chromosome 13
6247	19320	32550	4.91	2.0E-67	BF240758.1	EST_HUMAN	601875351F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:4081893 5'
6428	19494	32746	2.19	2.0E-67	AB051763.1	NT	Homo sapiens mRNA for NADPH-cytochrome P-450 reductase, complete cds
6428	19494	32747	2.19	2.0E-67	AB051763.1	NT	Homo sapiens mRNA for NADPH-cytochrome P-450 reductase, complete cds
6798	19852	33137	0.77	2.0E-67	AL120542.1	EST_HUMAN	DKFZp761A229_r1 761 (synonym: hamy2) Homo sapiens cDNA clone DKFZp761A228 5'
8904	21870	35285	0.83	2.0E-67	AA334609.1	EST_HUMAN	EST38850 Embryo, 9 week Homo sapiens cDNA 5' end similar to cerebellin
8904	21870	35296	0.83	2.0E-67	AA334609.1	EST_HUMAN	EST38850 Embryo, 9 week Homo sapiens cDNA 5' end similar to cerebellin
9348	22313	35737	1.11	2.0E-67	AW802635.1	EST_HUMAN	RC4-BT0566-170100-011-c07 BT0566 Homo sapiens cDNA
9348	22313	35738	1.11	2.0E-67	AW802635.1	EST_HUMAN	RC4-BT0566-170100-011-c07 BT0566 Homo sapiens cDNA
9925	22809	36261	1.05	2.0E-67	AV731333.1	EST_HUMAN	AV731333 HTF Homo sapiens cDNA clone HTFARD03 5'
10067	22994	36463	1.01	2.0E-67	AW293624.1	EST_HUMAN	U14-B12-ahr-e-10-0-J1.s1 NCI_CGAP_Sub4 Homo sapiens cDNA clone IMAGE:2727283 3'
10984	23904	37418	0.44	2.0E-67	AA928089.1	EST_HUMAN	on86b07 s1 Soares NFL_I_GBC_S1 Homo sapiens cDNA clone IMAGE:1563541 3'
11249	24202	37724	1.47	2.0E-67	BF685788.1	EST_HUMAN	602140470F1 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:4301705 5'
11360	24327	37856	1.58	2.0E-67	BF634485.1	EST_HUMAN	601453262F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3658875 5'
11398	26011		2.51	2.0E-67	11436448	NT	Homo sapiens KIAA0985 protein (KIAA0985), mRNA
11562	24502	38060	1.93	2.0E-67	BE295714.1	EST_HUMAN	601175762F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531038 5'
11784	23939	37461	1.63	2.0E-67	BF377169.1	EST_HUMAN	PM2-TN0103-040600-001-c02 TN0103 Homo sapiens cDNA
12808	25434	31741	1.73	2.0E-67	11417877	NT	Homo sapiens gamma-glutamyltransferase 1 (GGT1), mRNA
253	13350	26276	1.82	1.0E-67	4502166	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
709	13771	28705	1.34	1.0E-67	AA702784.1	EST_HUMAN	Z190504.s1 Soares fetal_liver_spleen_INFLS_S1 Homo sapiens cDNA clone IMAGE:448015 3'
10587	23509	37001	0.44	1.0E-67	Q93075	SWISSPROT	HYPOTHETICAL PROTEIN KIAA0218
10587	23509	37002	0.44	1.0E-67	Q93075	SWISSPROT	HYPOTHETICAL PROTEIN KIAA0218
2186	15201	28221	2.37	8.0E-68	BE870732.1	EST_HUMAN	601448558F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3852254 5'
3883	16923	29831	4.25	8.0E-68	AA209458.1	EST_HUMAN	SW:SAV_SULAC Q07590 SAV PROTEIN ;
3883	16923	29832	4.25	8.0E-68	AA209458.1	EST_HUMAN	zq82h10.r1 Stratiagene hNT neuron (#937233) Homo sapiens cDNA clone IMAGE:648163 5' similar to
8438	21407	34819	0.57	7.0E-68	A1810505.1	EST_HUMAN	SW:SAV_SULAC Q07590 SAV PROTEIN ;
10818	23737	37240	2.48	6.0E-68	11422066	NT	wb89e03.x1 NCI_CGAP_P28 Homo sapiens cDNA clone IMAGE:2312860 3'
12611	25436		2.18	6.0E-68	BE612554.1	EST_HUMAN	Homo sapiens brefeldin A-inhibited guanine nucleotide-exchange protein 2 (BIG2), mRNA
13058	25594	31686	1.52	6.0E-68	BF310675.1	EST_HUMAN	601462087F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3855761 5'
803	15815	26810	0.68	5.0E-68	AF231919.1	NT	601894635F2 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4124144 5'
803	15815	26811	0.68	5.0E-68	AF231918.1	NT	Homo sapiens chromosome 21 unknown mRNA

Table 4

Single Exon Probes Expressed In Bone Marrow

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
820	13878	26827	4.72	5.0E-68	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
820	13878	26828	4.72	5.0E-68	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
2781	15783	28789	1.23	5.0E-68	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
3182	16218	29133	3.08	5.0E-68	AB037852.1	NT	Homo sapiens mRNA for KIAA1431 protein, partial cds
4210	17239		0.8	5.0E-68	4826967	NT	Homo sapiens retinoblastoma-binding protein 2 (RBBP2) mRNA
4518	17543	30429	0.75	5.0E-68	AL157645.1	EST_HUMAN	DKFZ547D207.1 547 (synonym: hfar1) Homo sapiens cDNA clone DKFZ547D207.5'
6889	19941	33236	0.67	5.0E-68	7019512	NT	Homo sapiens RAB3A interacting protein (rabn3)-like 1 (RAB3IL1), mRNA
6889	19941	33237	0.67	5.0E-68	7019512	NT	Homo sapiens RAB3A interacting protein (rabn3)-like 1 (RAB3IL1), mRNA
2532	15535	28556	0.94	4.0E-68	11421388	NT	Homo sapiens transcription factor NRF (NRF), mRNA
5011	18025		7.83	4.0E-68	P04406	SWISSPROT	GLYCERALDEHYDE 3-PHOSPHATE DEHYDROGENASE, LIVER
6075	19156	32368	0.67	4.0E-68	AF157063.1	NT	Homo sapiens sodin (SEDL) gene, exon 4
6839	20163	33485	5.5	4.0E-68	11055991	NT	Homo sapiens serine carboxypeptidase 1 precursor protein (HSCP1), mRNA
6839	20163	33488	5.5	4.0E-68	11055991	NT	Homo sapiens serine carboxypeptidase 1 precursor protein (HSCP1), mRNA
7946	20887	34278	0.72	4.0E-68	7661683	NT	Homo sapiens mRNA for KIAA0145 protein, partial cds
9395	22360	35790	5.91	4.0E-68	D63479.2	NT	Homo sapiens mRNA for KIAA0145 protein, partial cds
9395	22360	35791	5.91	4.0E-68	D63479.2	NT	Homo sapiens mRNA for KIAA0145 protein, partial cds
9533	22496	35944	2.83	4.0E-68	AB040918.1	NT	Homo sapiens mRNA for KIAA1485 protein, partial cds
11345	24295	37821	1.55	4.0E-68	4506282	NT	Homo sapiens protein tyrosine phosphatase type IVA, member 1 (PTP4A1) mRNA
11345	24295	37822	1.55	4.0E-68	4506282	NT	Homo sapiens protein tyrosine phosphatase type IVA, member 1 (PTP4A1) mRNA
3673	16716	29630	5.02	3.0E-68	AF236082.1	NT	Mus musculus G-protein coupled receptor GPR73 (Gpr73) mRNA, complete cds
5299	18303	31164	0.93	3.0E-68	AF236082.1	NT	Mus musculus G-protein coupled receptor GPR73 (Gpr73) mRNA, complete cds
9812	21135		5.47	3.0E-68	A1342323.1	EST_HUMAN	q38h02.x1 Soares_fetal_lung_NbHL19W Homo sapiens cDNA clone IMAGE:1950281 3' similar to contains THR12 THR repetitive element
10868	23788	37288	2.01	3.0E-68	F28784.1	EST_HUMAN	HSPD18178 HM3 Homo sapiens cDNA clone s3000023D09
13012	25725		1.99	3.0E-68	AW939485.1	EST_HUMAN	QV1-DT0072-010200-056-h06 DT0072 Homo sapiens cDNA
2873	18321		27.9	2.0E-68	D00522.1	NT	Cricetus longicaudatus mRNA for EF-1 alpha, complete cds
4055	17092	29987	0.75	2.0E-68	BE875768.1	EST_HUMAN	7115102.x1 NCI_CGAP_GLL1 Homo sapiens cDNA clone IMAGE:3294747 3' similar to TR:O80828 O80828
4708	17729	30623	1.86	2.0E-68	AB008881.1	NT	HYPOTHETICAL 88.8 KD PROTEIN
7059	20081		9.21	2.0E-68	R45088.1	EST_HUMAN	Homo sapiens gene for activin receptor type IIB, complete cds
7265	20000	33299	4.51	2.0E-68	BF035316.1	EST_HUMAN	yg38g04.s1 Soares infant brain 1NIB Homo sapiens cDNA clone IMAGE:34898 3'
7425	20392		0.61	2.0E-68	11525737	NT	601458514F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3862034 5'
							Homo sapiens UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 8 (GalNAc-T8) (GALNT8), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7595	20558	33918	0.61	2.0E-68	BF338745.1	EST_HUMAN	IL3-CT0534-180900-273-A01 CT0534 Homo sapiens cDNA
9301	22266	35696	0.67	2.0E-68	Q05859	SWISSPROT	FORMIN 4 (LIMB DEFORMITY PROTEIN)
80	13196	26120	0.75	1.0E-68	4505222	NT	Homo sapiens meningioma (disrupted in balanced translocation) 1 (MN1), mRNA
296	13390	26316	17.65	1.0E-68	AW816405.1	EST_HUMAN	QV4-ST0234-181199-037-05 ST0234 Homo sapiens cDNA
2263	15277	28301	1.27	1.0E-68	AB011149.1	NT	Homo sapiens mRNA for KIAA0577 protein, complete cds
2263	15277	28302	1.27	1.0E-68	AB011149.1	NT	Homo sapiens mRNA for KIAA0577 protein, complete cds
2767	15759	28781	1.04	1.0E-68	AW451832.1	EST_HUMAN	UI-H-B13-alk-f-01-0-UI.s1 NCI_CGAP_Sub5 Homo sapiens cDNA clone IMAGE:2737272 3'
4037	17075	29975	1.01	1.0E-68	BE298032.1	EST_HUMAN	601177002F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3532344 5'
5066	18076	30857	0.69	1.0E-68	AA897343.1	EST_HUMAN	al47g12.s1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1460518 3'
5395	18498	31378	1.8	1.0E-68	7682349	NT	Homo sapiens cell recognition molecule Caspr2 (KIA0868), mRNA
7938	20990	34270	0.56	1.0E-68	11436716	NT	Homo sapiens sentrin/SUMO-specific protease (SENP1), mRNA
11198	24153	37694	1.48	1.0E-68	11418869	NT	Homo sapiens phosphodiesterase 7B (PDE7B), mRNA
11198	24153	37885	1.48	1.0E-68	11418869	NT	Homo sapiens phosphodiesterase 7B (PDE7B), mRNA
11250	24203	37725	3.37	1.0E-68	L78416.1	NT	Homo sapiens MIF2 suppressor (HSMIT3) mRNA, complete cds
11831	24568	38131	2.13	1.0E-68	U50319.1	NT	Human protein kinase C substrate 80K-H (PRKCSH) gene, exon 4-5
11831	24568	38132	2.13	1.0E-68	U50319.1	NT	Human protein kinase C substrate 80K-H (PRKCSH) gene, exon 4-5
11975	24852	38449	1.73	1.0E-68	11418431	NT	Homo sapiens CGI-78 protein (LOC51632), mRNA
11975	24852	38450	1.73	1.0E-68	11418431	NT	Homo sapiens CGI-78 protein (LOC51632), mRNA
12790	13196	26120	2.19	1.0E-68	4505222	NT	Homo sapiens meningioma (disrupted in balanced translocation) 1 (MN1), mRNA
13005	25896	31419	2.07	1.0E-68	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
13057	25593		1.81	1.0E-68	11418213	NT	Homo sapiens ADP-ribosylation factor GTPase activating protein 1 (ARFGAP1), mRNA
22	13142	26040	5.15	9.0E-69	5031978	NT	Homo sapiens pre-B-cell colony-enhancing factor (PBEF) mRNA
22	13142	26041	5.15	9.0E-69	5031978	NT	Homo sapiens pre-B-cell colony-enhancing factor (PBEF) mRNA
1029	14075	27025	0.76	9.0E-69	5031980	NT	Homo sapiens 26S proteasome-associated pad1 homolog (POH1) mRNA
1029	14075	27026	0.76	9.0E-69	5031980	NT	Homo sapiens 26S proteasome-associated pad1 homolog (POH1) mRNA
4155	17186	30074	0.67	9.0E-69	4757867	NT	Homo sapiens v-raf murine sarcoma viral oncogene homolog B1 (BRAF) mRNA
4175	17208	30092	1.02	9.0E-69	4504010	NT	Homo sapiens glutamate-cysteine ligase (gamma-glutamylcysteine synthetase), regulatory (30.8kD) (GLCLR) mRNA
5241	18249	31120	0.93	9.0E-69	AF057177.1	NT	Homo sapiens T-cell receptor gamma V1 gene region
11238	24189		5.51	9.0E-69	AU117241.1	EST_HUMAN	AU117241 HEMBA1 Homo sapiens cDNA clone HEMBA1000988 5'
3397	16446		1.77	9.0E-69	AJ237744.1	NT	Homo sapiens RIBLIR gene (partial), exon 12
6487	19552	32802	5.85	7.0E-69	9868912	NT	Homo sapiens actin-related protein 3-beta (ARP3BETA), mRNA
8195	21185	34574	15.42	6.0E-69	AI192784.1	EST_HUMAN	q652h01.x1 Soares_fetal_lung_NbHL10W Homo sapiens cDNA clone IMAGE:1743801 3' similar to gb:L11566 60S RIBOSOMAL PROTEIN L18 (HUMAN);

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8195	21165	34575	15.42	8.0E-69	A1192764.1	EST_HUMAN	q62h01.x1 Soares fetal lung NBH-19W Homo sapiens cDNA clone IMAGE:1743601 3' similar to
9325	22290	35720	1.04	5.0E-69	A4829039.1	EST_HUMAN	gb.L11688 60S RIBOSOMAL PROTEIN L18 (HUMAN);
521	13592		1.27	4.0E-69	A1873630.1	EST_HUMAN	cd60a03.st NCJ CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1372300 3'
5855	25646	32130	1.38	4.0E-69	BE561063.1	EST_HUMAN	wm28n11.x1 NCJ CGAP_U14 Homo sapiens cDNA clone IMAGE:2437126 3'
							601344705F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3677641 5'
							wh57b06.x1 NCJ CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2384819 3' similar to TR-O55137
5943	19029	32223	5	4.0E-69	A764973.1	EST_HUMAN	O55137 ACYL-COA THIOESTERASE ;
6783	19838	33122	2.77	4.0E-69	4557732	NT	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA
6783	19838	33123	2.77	4.0E-69	4557732	NT	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA
9285	22231	35062	0.55	4.0E-69	AU119834.1	EST_HUMAN	AU119634 HEMBA1 Homo sapiens cDNA clone HEMBA1008283 5'
386	13499	28432	3.2	3.0E-69	BE259012.1	EST_HUMAN	601110371F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3351352 5'
614	13679	28595	2.56	3.0E-69	AF221712.1	NT	Homo sapiens Smad- and Olf-interacting zinc finger protein mRNA, partial cds
2386	15394		0.93	3.0E-69	5729810	NT	Homo sapiens lymphatic vessel endothelial hyaluronan receptor 1 (LYVE-1) mRNA
4818	17639		0.93	3.0E-69	T96234.1	EST_HUMAN	ye48n04.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:121015 5'
5314	18330	38613	1.79	3.0E-69	T96234.1	EST_HUMAN	ye48n04.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:121015 5'
5712	18806	31983	0.54	3.0E-69	U14178.1	NT	Homo sapiens acetylase 2, mitochondrial (ACO2), mRNA
							Human type II IL-1 receptor gene, exon 1B
6972	20195		0.58	3.0E-69	AJ277557.1	NT	Homo sapiens dNT-2 gene for mitochondrial 5(3)-deoxyribonucleotidase (dNT-2 gene), exons 1-5
7038	18370	31257	0.6	3.0E-69	11426786	NT	Homo sapiens sperm surface protein (HSS), mRNA
							Homo sapiens short chain L-3-hydroxyacyl-CoA dehydrogenase precursor (HADHSC) gene, nuclear gene
7597	20558	33918	0.82	3.0E-69	AF095703.1	NT	encoding mitochondrial protein, complete cds
7651	20611	33977	1.52	3.0E-69	U52351.1	NT	Homo sapiens arm-repeat protein NPRAP/neurojuncin (CTNND2) mRNA, partial cds
7800	20752	34128	8.4	3.0E-69	AF268075.1	NT	Homo sapiens TRAF6-binding protein T6BP mRNA, complete cds
8715	21683	35111	1.05	3.0E-69	AW138646.1	EST_HUMAN	U1-H-B11-acw-g-01-0-U1.st NCJ CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2715840 3'
9120	22086		1.38	3.0E-69	AA376399.1	EST_HUMAN	EST188807 HSC172 cells II Homo sapiens cDNA 5' end similar to similar to ribosomal protein S18
9328	22293	35722	0.5	3.0E-69	8923248	NT	Homo sapiens hypothetical protein FLJ20275 (FLJ20275), mRNA
9768	22709	36164	1.64	3.0E-69	X13223.1	NT	H. sapiens mRNA for N-acetylglucosaminide-(beta 1-4)-galactosyltransferase
							Human mRNA for calcium-binding protein in macrophages (MRP-14) macrophage migration inhibitory factor (MIF)-related protein
8891	22844	36301	59.4	3.0E-69	X06233.1	NT	(MIF)-related protein
10188	23113	36597	0.71	3.0E-69	5730036	NT	Homo sapiens SEC10 (S. cerevisiae)-like 1 (SEC10L1), mRNA
11003	23969	37493	3.26	3.0E-69	11432120	NT	Homo sapiens ribosomal protein S15a (RPS15A), mRNA
11190	24146		12.51	3.0E-69	AA376399.1	EST_HUMAN	EST188807 HSC172 cells II Homo sapiens cDNA 5' end similar to similar to ribosomal protein S18
12300	25111		7.34	3.0E-69	11419157	NT	Homo sapiens HGO6.2 protein (HGO6.2), mRNA

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Table 4
Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
129	13477	26411	1.08	2.0E-69	AF160252.1	NT	Homo sapiens KIAA0553 protein gene, complete cds; and alpha1b protein gene, partial cds
129	13477	26412	1.06	2.0E-69	AF160252.1	NT	Homo sapiens KIAA0553 protein gene, complete cds; and alpha1b protein gene, partial cds
404	13477	26411	4.75	2.0E-69	AF160252.1	NT	Homo sapiens KIAA0553 protein gene, complete cds; and alpha1b protein gene, partial cds
404	13477	26412	4.75	2.0E-69	AF160252.1	NT	Homo sapiens KIAA0553 protein gene, complete cds; and alpha1b protein gene, partial cds
1902	14926	27924	1.46	2.0E-69	BE257857.1	EST_HUMAN	601109444F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3350074 5'
2856	15916		3.8	2.0E-69	AA431157.1	EST_HUMAN	zw71g02.r1 Scores_testis_NHT Homo sapiens cDNA clone IMAGE:781682 5'
8900	21886	35289	0.97	2.0E-69	AA114270.1	EST_HUMAN	zm29g01.r1 Stratagene pancreas (#937208) Homo sapiens cDNA clone IMAGE:527088 5'
1714	14744	27728	2.69	1.0E-69	AF053769.1	NT	Rattus norvegicus brain specific cortactin-binding protein CBP80 mRNA, partial cds
5059	18069		0.73	1.0E-69	BE408094.1	EST_HUMAN	601301284F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3635781 5'
6168	19243	32474	0.78	1.0E-69	BE902501.1	EST_HUMAN	601678788F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3658632 5'
6168	19243	32475	0.78	1.0E-69	BE902501.1	EST_HUMAN	601678788F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3658632 5'
6758	18812	33092	4.09	1.0E-69	AW393969.1	EST_HUMAN	QV0-TT0010-031199-045-c07 TT0010 Homo sapiens cDNA
6992	20215	33544	1.4	1.0E-69		NT	Homo sapiens KIAA0716 gene product (KIAA0716), mRNA
6992	20215	33545	1.4	1.0E-69		NT	Homo sapiens KIAA0716 gene product (KIAA0716), mRNA
7011	20137	33453	2.78	1.0E-69	AB032973.1	NT	Homo sapiens mRNA for KIAA1147 protein, partial cds
7011	20137	33454	2.78	1.0E-69	AB032973.1	NT	Homo sapiens mRNA for KIAA1147 protein, partial cds
7065	20087	33396	0.62	1.0E-69	BE531007.1	EST_HUMAN	601278532F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3610814 5'
7065	20087	33397	0.62	1.0E-69	BE531007.1	EST_HUMAN	601278532F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3610614 5'
10534	23456	36952	4.31	1.0E-69	BE245070.1	EST_HUMAN	TCBAP-1E2678 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens cDNA clone TCBAP2678
10534	23456	36953	4.31	1.0E-69	BE245070.1	EST_HUMAN	TCBAP-1E2678 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens cDNA clone TCBAP2678
10631	23653	37053	1.48	1.0E-69	AB014607.1	NT	Homo sapiens mRNA for KIAA0707 protein, partial cds
10779	23700	37198	0.53	1.0E-69	BF528429.1	EST_HUMAN	602043782F1 NCL CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4181325 5'
11219	24172		2.78	1.0E-69	4504918	NT	Homo sapiens keratin 8 (KRT8) mRNA
12234	25066	38187	1.89	1.0E-69	BF125887.1	EST_HUMAN	601762902F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:4025785 5'
12648	25331		6.78	1.0E-69	A1809994.1	EST_HUMAN	wf64e08.x1 Scores_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2360390 3' similar to contains Alu repetitive element; contains element MIR repetitive element
2339	15890	26370	1.61	8.0E-70	AA230303.1	EST_HUMAN	nc13d12.r1 NCL CGAP_P1 Homo sapiens cDNA clone IMAGE:1008023
4401	17429	30314	2.11	8.0E-70	L77566.1	NT	Homo sapiens DGS-1 mRNA, 3' end
1830	14857	27854	2.26	7.0E-70	A1497807.1	EST_HUMAN	tm89f01.x1 NCL CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2165305 3'
1830	14857	27855	2.26	7.0E-70	A1497807.1	EST_HUMAN	tm89f01.x1 NCL CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2165305 3'
1947	14871	27969	1.87	7.0E-70	AA282955.1	EST_HUMAN	215f04.r1 NCL CGAP_GCB1 Homo sapiens cDNA clone IMAGE:713239 5'
2078	15095		2.97	7.0E-70	5031663	NT	Homo sapiens tumor suppressor deleted in oral cancer-related 1 (DOC-1R) mRNA

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Table 4
Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4252	17281	30162	4.29	7.0E-70	4757723	NT	Homo sapiens adenylate cyclase 3 (ADCY3) mRNA
5560	18857	31602	5.36	7.0E-70	AB032369.1	NT	Homo sapiens MIST mRNA, partial cds
5560	18857	31603	5.36	7.0E-70	AB032369.1	NT	Homo sapiens MIST mRNA, partial cds
7110	20044	33346	2.38	7.0E-70	AJ000052.1	NT	Homo sapiens gene encoding splicing factor SF1, exons 2-8
8046	20982	34378	0.74	7.0E-70	11417308	NT	Homo sapiens titin immunoglobulin domain protein (myotilin) (TTID), mRNA
8774	21741	35162	2.43	7.0E-70	AB037715.1	NT	Homo sapiens mRNA for KIAA1294 protein, partial cds
8774	21741	35163	2.43	7.0E-70	AB037715.1	NT	Homo sapiens mRNA for KIAA1294 protein, partial cds
9072	22038	35482	4.26	7.0E-70	M74099.1	NT	Human displacement protein (GCAAT) mRNA
9072	22038	35483	4.26	7.0E-70	M74099.1	NT	Human displacement protein (GCAAT) mRNA
9512	22475	35919	2.79	7.0E-70	X59841.1	NT	Human PBX3 mRNA
9512	22475	35920	2.79	7.0E-70	X59841.1	NT	Human PBX3 mRNA
9780	21113	34513	3.51	7.0E-70	AF153715.1	NT	Homo sapiens phospholipid scramblase 1 gene, exon 1 and 5 flanking region
9816	21138	34542	2.05	7.0E-70	11525964	NT	Homo sapiens karyopherin beta 2b, transporthin (TRN2), mRNA
9816	21138	34543	2.05	7.0E-70	11525964	NT	Homo sapiens karyopherin beta 2b, transporthin (TRN2), mRNA
10014	22941	36407	0.93	7.0E-70	4557624	NT	Homo sapiens glutamate-cysteine ligase (gamma-glutamylcysteine synthetase), catalytic (72.8kD) (GLCLC) mRNA
10661	23583	37079	0.6	7.0E-70	AB036429.1	NT	Homo sapiens NDST 4 mRNA for N-deacetylase/N-sulfotransferase 4, complete cds
10661	23583	37080	0.6	7.0E-70	AB036429.1	NT	Homo sapiens NDST 4 mRNA for N-deacetylase/N-sulfotransferase 4, complete cds
11923	24804	38386	2.36	7.0E-70	11528319	NT	Homo sapiens HIR (histone cell cycle regulation defective, S. cerevisiae) homolog A (HIRA), mRNA
11923	24804	38397	2.36	7.0E-70	11528319	NT	Homo sapiens HIR (histone cell cycle regulation defective, S. cerevisiae) homolog A (HIRA), mRNA
12893	25882	31414	13.53	7.0E-70	Z00040.1	NT	Human kappa-immunoglobulin germ line pseudogene variable region (subgroup V kappa I)
13071	25605	31698	34.82	7.0E-70	Z00040.1	NT	Human kappa-immunoglobulin germ line pseudogene variable region (subgroup V kappa I)
872	13928	26886	2.38	6.0E-70	4502166	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
2147	15163	28179	1.7	6.0E-70	M30938.1	NT	Human Ku (p70/p80) subunit mRNA, complete cds
2516	15519	28542	1.17	6.0E-70	8623899	NT	Homo sapiens CMP-N-acetylneuraminic acid synthase (LOC55907), mRNA
2569	15897	28577	1.76	5.0E-70	7662307	NT	Homo sapiens KIAA0792 gene product (KIAA0792), mRNA
2569	15897	28578	1.76	5.0E-70	7662307	NT	Homo sapiens KIAA0792 gene product (KIAA0792), mRNA
12243	25073		2.52	5.0E-70	BE168034.1	EST_HUMAN	MF3-HT0487-150200-115-a06 HT0487 Homo sapiens cDNA
6918	19669	33285	1.24	4.0E-70	T06037.1	EST_HUMAN	EST03926 Fetal brain, Stragena (cadd936206) Homo sapiens cDNA clone HFBDN25
6961	20186	33510	0.78	4.0E-70	AW793226.1	EST_HUMAN	CM4-UM0003-010300-105-g08 UM0003 Homo sapiens cDNA
6961	20186	33511	0.78	4.0E-70	AW793226.1	EST_HUMAN	CM4-UM0003-010300-105-g08 UM0003 Homo sapiens cDNA

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1593	14625	27598	1.56	3.0E-70	BE071796.1	EST_HUMAN	RCO-BT0522-071298-011-e12 BT0522 Homo sapiens cDNA
1593	14625	27599	1.56	3.0E-70	BE071796.1	EST_HUMAN	RCO-BT0522-071298-011-e12 BT0522 Homo sapiens cDNA
5701	18796	31970	0.63	3.0E-70	11430388	NT	Homo sapiens plakophilin 4 (PKP4), mRNA
5701	18796	31971	0.63	3.0E-70	11430388	NT	Homo sapiens plakophilin 4 (PKP4), mRNA
6055	19138	32346	1.1	3.0E-70	A1831975.1	EST_HUMAN	W90003.x1 NCI_CGAP CLL1 Homo sapiens cDNA clone IMAGE:2388005 3'
6509	19573	32826	1.27	3.0E-70	BF685233.1	EST_HUMAN	802141561F1 NIH_MGC_48 Homo sapiens cDNA clone IMAGE:4302806 5'
6509	19573	32827	1.27	3.0E-70	BF685233.1	EST_HUMAN	802141561F1 NIH_MGC_48 Homo sapiens cDNA clone IMAGE:4302806 5'
10487	23389	36883	0.55	3.0E-70	BE502873.1	EST_HUMAN	h281h02.x1 NCI_CGAP Lu24 Homo sapiens cDNA clone IMAGE:3214419 3'
40	13160	26063	2.14	2.0E-70	AF012872.1	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (pi4K230) mRNA, complete cds
690	13753	26680	14.23	2.0E-70	N42161.1	EST_HUMAN	W07a10.r1 Soares melanocyte 2NbhM Homo sapiens cDNA clone IMAGE:270522 5' similar to SW-D3HL_RAT P28286 3-HYDROXYISOBUTYRATE DEHYDROGENASE PRECURSOR ;
690	13753	26681	14.23	2.0E-70	N42161.1	EST_HUMAN	W07a10.r1 Soares melanocyte 2NbhM Homo sapiens cDNA clone IMAGE:270522 5' similar to SW-D3HL_RAT P28286 3-HYDROXYISOBUTYRATE DEHYDROGENASE PRECURSOR ;
706	13768	26704	1.39	2.0E-70	A1246899.1	EST_HUMAN	q51h01.x1 NCI_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2004913 3'
1023	14069	27020	1.23	2.0E-70	8923669	NT	Homo sapiens hypothetical protein FLJ20758 (FLJ20758), mRNA
1188	14228	27184	1.73	2.0E-70	7661983	NT	Homo sapiens KIAA0193 gene product (KIAA0193), mRNA
1188	14228	27185	1.73	2.0E-70	7661983	NT	Homo sapiens KIAA0193 gene product (KIAA0193), mRNA
1694	14696	27671	1.53	2.0E-70	AA180093.1	EST_HUMAN	zp45h05.r1 Stratagene HeLa cell s3 837216 Homo sapiens cDNA clone IMAGE:612441 5' similar to TR:G1041293 G1041293 D2085.5 ;
1664	14696	27672	1.53	2.0E-70	AA180093.1	EST_HUMAN	zp45h05.r1 Stratagene HeLa cell s3 837216 Homo sapiens cDNA clone IMAGE:612441 5' similar to TR:G1041293 G1041293 D2085.5 ;
1757	14786	27771	1.73	2.0E-70	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
2328	15339		5.47	2.0E-70	AA054010.1	EST_HUMAN	zf48g04.r1 Soares retina N2b4HR Homo sapiens cDNA clone IMAGE:380214 5' similar to SW:GAG_HTL1A P03345 GAG POLYPROTEIN ;
3841	16894	29600	1.06	2.0E-70	H37988.1	EST_HUMAN	yp58b04.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:191599 5'
3833	16873	29774	0.86	2.0E-70	AL133207.2	NT	Novel human gene mapping to chromosome X
4078	17114	30010	5.63	2.0E-70	M69181.1	NT	Human normuscle myosin heavy chain-B (MYH10) mRNA, partial cds
4221	17260	30135	0.98	2.0E-70	L78810.1	NT	Homo sapiens ADP/ATP carrier protein (ANT-2) gene, complete cds
4221	17260	30136	0.98	2.0E-70	L78810.1	NT	Homo sapiens ADP/ATP carrier protein (ANT-2) gene, complete cds
5593	18689	31658	9.14	2.0E-70	X72662.1	NT	H. sapiens gene for schwannomin (CS8)
5593	18689	31659	9.14	2.0E-70	X72662.1	NT	H. sapiens gene for schwannomin (CS8)
6328	19398	32840	1.1	2.0E-70	AF310105.1	NT	Homo sapiens NALP1 mRNA, complete cds
6780	19844	33128	3.84	2.0E-70	D12625.1	NT	Human mRNA for NF1 protein isoform (neurofibromin isoform), complete cds
6824	19878	33167	11.3	2.0E-70	AF123074.1	NT	Homo sapiens cytoplasmic dynein intermediate chain 1 mRNA, complete cds

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Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6824	19878	33168	11.3	2.0E-70	AF123074.1	NT	Homo sapiens cytoplasmic dynein intermediate chain 1 mRNA, complete cds
7190	18421	31223	1.44	2.0E-70	11422842	NT	Homo sapiens sialyltransferase 6 (N-acetylglucosaminidase alpha 2,3-sialyltransferase) (SIAT6), mRNA
7633	20593	33956	0.58	2.0E-70	AF288207.1	NT	Homo sapiens cysteine tRNA synthetase mRNA, complete cds, alternatively spliced
8251	21220	34628	5.38	2.0E-70	M21741.1	NT	Human guanine nucleotide-binding protein alpha-subunit gene (G-s-alpha), exons 4 and 5
8584	21532	34952	0.45	2.0E-70	11423589	NT	Homo sapiens amylo-1,6-glucosidase, 4-alpha-glucanotransferase (glycogen debranching enzyme, glycogen storage disease type III) (AGL), mRNA
9007	21973	37396	0.76	2.0E-70	H47959.1	EST_HUMAN	yp79g02.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:193682 5'
9524	22487	35935	0.95	2.0E-70	11526356	NT	Homo sapiens calcitriol-binding transporter mRNA, partial cds
10497	23419	36918	1.42	2.0E-70	AF123303.1	NT	Homo sapiens mRNA for KIAA1216 protein, partial cds
10963	23883	37396	0.49	2.0E-70	AB033042.1	NT	Homo sapiens hypothetical protein FLJ20450 (FLJ20450), mRNA
11408	24352	37884	3.11	2.0E-70	8923420	NT	Homo sapiens hypothetical protein FLJ20450 (FLJ20450), mRNA
11408	24352	37885	3.11	2.0E-70	8923420	NT	Homo sapiens eukaryotic translation initiation factor 3, subunit 6 (48kD) (EIF3S6), mRNA
11956	24835	38431	11.5	2.0E-70	4503520	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
12637	25321	31786	2.64	2.0E-70	11430450	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
12637	25321	31787	2.64	2.0E-70	11430450	NT	Homo sapiens transglutaminase 3 (E polypeptide, protein-glutamine-gamma-glutamyltransferase) (TGM3), mRNA
3404	16453		3.08	1.0E-70	4507476	NT	
9635	22579		0.78	1.0E-70	W85795.1	EST_HUMAN	zh55g05.r1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:416024 5'
10158	23083		0.64	1.0E-70	AA442292.1	EST_HUMAN	zv54c03.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:757444 5'
11281	24231	37757	8.6	1.0E-70	AV738538.1	EST_HUMAN	AV738538 CB Homo sapiens cDNA clone CBLGB10 5'
6054	19135	32344	7.1	9.0E-71	AI143870.1	EST_HUMAN	qe04f01.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1738009 3' similar to TR:O14045
6054	19135	32345	7.1	9.0E-71	AI143870.1	EST_HUMAN	qe04f01.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1738009 3' similar to TR:O14045
7231	20253	33587	1.98	9.0E-71	AI654903.1	EST_HUMAN	O14045 PHOSPHOTRANSFERASE.1
11852	20263	33587	3.67	9.0E-71	AI654903.1	EST_HUMAN	wb52c05.x1 NCI_CGAP_G06 Homo sapiens cDNA clone IMAGE:2309288 3' similar to TR:P97213 P97213
9425	22389		3.62	8.0E-71	AA171451.1	EST_HUMAN	CDU2, CDU1, TCDD, TCDB, TCDE, TCDA, TCDC, CDD1, CDD2, CDD3, AND CDD4 GENES. ;
10967	23987	37398	0.45	8.0E-71	AW273820.1	EST_HUMAN	wb52c05.x1 NCI_CGAP_G06 Homo sapiens cDNA clone IMAGE:2309288 3' similar to TR:P97213 P97213
7601	20562	33923	8.17	7.0E-71	AA442230.1	EST_HUMAN	CDU2, CDU1, TCDD, TCDB, TCDE, TCDA, TCDC, CDD1, CDD2, CDD3, AND CDD4 GENES. ;
							zp21d11.r1 Stralagene neuroepithelium (#837231) Homo sapiens cDNA clone IMAGE:610101 5' similar to
							TR:G1143061 G1143061 STRAIN XA34 POL ;
							IX24d01.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2814049 3' similar to TR:O54730
							O54730 TRANSPLANTABILITY ASSOCIATED PROTEIN 1 ;
							zv60h06.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:758075 5'

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9028	21992	35412	1.61	7.0E-71	AA705457.1	EST_HUMAN	z181a08.s1 Scores_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:482226 3'
11658	24594	38168	1.76	7.0E-71	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
2220	15234	28258	8.79	5.0E-71	AF056322.1	NT	Homo sapiens SP100-HMG nuclear autoantigen (SP100) mRNA, complete cds
4145	17177	30068	1.1	5.0E-71	AW818405.1	EST_HUMAN	QV4-ST0234-181199-037-f05 ST0234 Homo sapiens cDNA
5981	18096	32264	2.02	5.0E-71	4502740	NT	Homo sapiens cyclin-dependent kinase 6 (CDK6) mRNA
6819	19873	33162	1.15	5.0E-71	11641408	NT	Homo sapiens keratin, hair, acidic, 7 (KRT1A7), mRNA
7105	20039	33341	0.72	5.0E-71	7662209	NT	Homo sapiens KIAA0623 gene product (KIAA0623), mRNA
7167	18398	31243	0.64	5.0E-71	AB033108.1	NT	Homo sapiens mRNA for KIAA1280 protein, partial cds
7187	18398	31244	0.64	5.0E-71	AB033108.1	NT	Homo sapiens mRNA for KIAA1280 protein, partial cds
7353	20323	33671	0.69	5.0E-71	11431590	NT	Homo sapiens protein kinase C, beta 1 (PRKCB1), mRNA
7753	20706	34075	1.62	5.0E-71	M38106.1	NT	Human neurofibromatosis protein type 1 mRNA, 3' end of cds
7974	20913	34304	0.84	5.0E-71	11526445	NT	Homo sapiens MAGUK protein p51; Protein Associated with Lins 2 (LOC51678), mRNA
8007	20945	34340	22.85	5.0E-71	AF072810.1	NT	Homo sapiens transcription factor WSTF mRNA, complete cds
8868	21835	35256	0.61	5.0E-71	5453777	NT	Homo sapiens nuclear factor related to kappa B binding protein (NFKB) mRNA
8868	21835	35257	0.61	5.0E-71	5453777	NT	Homo sapiens nuclear factor related to kappa B binding protein (NFKB) mRNA
10271	23196		2.45	5.0E-71	X13487.1	NT	Human Prx4 gene for Alzheimer's disease A4 amyloid protein precursor (exon 2)
11325	24275	37803	7.5	5.0E-71	11436514	NT	Homo sapiens pro-platelet basic protein (includes platelet basic protein, beta-thromboglobulin, connective tissue-activating peptide III, neutrophil-activating peptide-2) (PPBP), mRNA
11525	24466	38020	2.01	5.0E-71	11438069	NT	Homo sapiens similar to hypothetical protein FLJ20163 (H. sapiens) (LOC63325), mRNA
12198	25043	38624	1.81	5.0E-71	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
104	13220	26145	1.04	4.0E-71	4507592	NT	Homo sapiens tumor necrosis factor (ligand) superfamily, member 10 (TNFSF10) mRNA
350	13439	26363	56.4	4.0E-71	AF157626.1	NT	Equus caballus glyceraldehyde-3-phosphate dehydrogenase mRNA, partial cds
350	13439	26364	56.4	4.0E-71	AF157626.1	NT	Equus caballus glyceraldehyde-3-phosphate dehydrogenase mRNA, partial cds
2897	15956	28873	1.9	4.0E-71	4505880	NT	Homo sapiens plasminogen (PLG) mRNA
4459	17485	30372	4.75	4.0E-71	AF056322.1	NT	Homo sapiens SP100-HMG nuclear autoantigen (SP100) mRNA, complete cds
5022	18036	30921	6.04	4.0E-71	7667802	NT	Homo sapiens putative home-binding protein (SOUL), mRNA
8388	21337		1.34	3.0E-71	AU135734.1	EST_HUMAN	Homo sapiens PLAGE1 Homo sapiens cDNA clone PLACE1002775 5'
11051	24014	37638	2.84	3.0E-71	AA557883.1	EST_HUMAN	n45h10.s1 NCI_CGAP_P4 Homo sapiens cDNA clone IMAGE:1043683 similar to contains PTR5.13 PTR5 repetitive element;
1234	14271	27231	5.56	2.0E-71	AL163206.2	NT	Homo sapiens chromosome 21 segment HS21C008
5393	18496	31374	8.35	2.0E-71	DB7462.1	NT	Human mRNA for KIAA0272 gene, partial cds
5393	18496	31375	8.35	2.0E-71	DB7462.1	NT	Human mRNA for KIAA0272 gene, partial cds
7160	18392	31236	0.57	2.0E-71	AL042439.1	EST_HUMAN	DKFZp434D1721_1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434D1721 5'

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Table 4
Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9359	23224	35752	0.5	2.0E-71	BF195565.1	EST_HUMAN	7n85c11.x1 NC1_CGAP_OV18 Homo sapiens cDNA clone IMAGE:3571221 3' similar to TR:Q8Z165
10950	23870	37382	4.19	2.0E-71	AF095703.1	NT	Q8Z165 PUTATIVE FOUR REPEAT ION CHANNEL ; Homo sapiens short chain L-3-hydroxyacyl-CoA dehydrogenase precursor (HADHSC) gene, nuclear gene encoding mitochondrial protein, complete cds
10950	23870	37383	4.19	2.0E-71	AF095703.1	NT	Homo sapiens short chain L-3-hydroxyacyl-CoA dehydrogenase precursor (HADHSC) gene, nuclear gene encoding mitochondrial protein, complete cds
11053	24016	37539	3.41	2.0E-71	BE018477.1	EST_HUMAN	b681a06.y1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3048754 5' similar to SW:R23B_HUMAN
11907	24788	38377	2.27	2.0E-71	R56526.1	EST_HUMAN	P54727 UV EXCISION REPAIR PROTEIN RAD23 HOMOLOG B ;
12315	25121		7.13	2.0E-71	T95489.1	EST_HUMAN	y77c11.1 Scores breast 2NBHst Homo sapiens cDNA clone IMAGE:154772 5'
639	13705	26626		1.0E-71	A077927.1	EST_HUMAN	y643a09.r1 Scores fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:120520 5'
940	13993	26945	1.68	1.0E-71	7706281	NT	oy16a03.s1 Scores senescent fibroblasts NBHSF Homo sapiens cDNA clone IMAGE:1865916 3' similar to contains LOR1.b2 LOR1 repetitive element ;
1102	14146	27096	6.21	1.0E-71	AF203890.1	NT	Homo sapiens neuronal cell death-related protein (LOC51616), mRNA
1343	14378	27347	9.86	1.0E-71	AF012872.1	NT	Homo sapiens dishevelled-2 gene, exons 2 through 15 and complete cds
2094	15111	28131	1.29	1.0E-71	AB017007.1	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (p4K230) mRNA, complete cds
2094	15111	28132	1.29	1.0E-71	AB017007.1	NT	Homo sapiens PMS2L16 mRNA, partial cds
2703	15999	28714	4.81	1.0E-71	7657183	NT	Homo sapiens PMS2L16 mRNA, partial cds
3610	16855	29572	5.11	1.0E-71	AF246219.1	NT	Homo sapiens hairy/enhancer-of-split related with YRPW motif-like (HEYL), mRNA
3610	16855	29573	5.11	1.0E-71	AF246219.1	NT	Homo sapiens SNARE protein kinase SNAK mRNA, complete cds
3662	16705	29619	1.18	1.0E-71	BE122850.1	EST_HUMAN	Homo sapiens SNARE protein kinase SNAK mRNA, complete cds
3662	16705	29620	1.18	1.0E-71	BE122850.1	EST_HUMAN	02_15 Human Epidermal Keratinocyte Subtraction Library- Upregulated Transcripts Homo sapiens cDNA clone 02_15 5' similar to Homo sapiens chromosome 19
3754	16796	29707	1.56	1.0E-71	AF218904.1	NT	02_15 Human Epidermal Keratinocyte Subtraction Library- Upregulated Transcripts Homo sapiens cDNA clone 02_15 5' similar to Homo sapiens chromosome 19
4497	17522	30409	2.16	1.0E-71	D28476.1	NT	Homo sapiens atractin precursor (ATRN) gene, exon 19
4822	17643	30531	0.68	1.0E-71	H23175.1	EST_HUMAN	Human mRNA for KIAA0045 gene, complete cds
6906	19958	33255	1.38	1.0E-71	11426182	NT	ym56h10.r1 Scores infant brain 1NIB Homo sapiens cDNA clone IMAGE:52528 5'
7292	20264	33598	1.28	1.0E-71	AB011131.1	NT	Homo sapiens GCN5 (general control of amino-acid synthesis, yeast, homdog)-like 2 (GCN5L2), mRNA
7533	20496	33857	12.87	1.0E-71	U80753.1	NT	Homo sapiens mRNA for KIAA0559 protein, partial cds
8486	21454	34871	0.76	1.0E-71	AF105267.1	NT	Homo sapiens CAGL79 mRNA, partial cds
8509	21477	34890	2.14	1.0E-71	11425430	NT	Homo sapiens glypican-6 (GPC6) mRNA, complete cds
8789	21756	35177	4.49	1.0E-71	8922811	NT	Homo sapiens myomesin (My-protein) 2 (165KD) (MYOM2), mRNA Homo sapiens hypothetical protein FLJ10998 (FLJ10998), mRNA

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8789	21766	35178	4.49	1.0E-71	892281.1	NT	Homo sapiens hypothetical protein FLJ10998 (FLJ10998), mRNA
9584	22546	35997	0.83	1.0E-71	S72393.1	NT	CSNK2A1=casein kinase II (CKII) subunit alpha [human, Genomic, 18862 nt]
10367	23260	36767	9.49	1.0E-71	AY007643.1	NT	Homo sapiens cytochrome c oxidase subunit VIIe-related protein gene, complete cds
10428	23350		3.08	1.0E-71	AV761217.1	EST_HUMAN	AV761217 MDS Homo sapiens cDNA clone MDSEIA03 5'
10904	23824	37336	1.52	1.0E-71	11433142	NT	Homo sapiens activated leucocyte cell adhesion molecule (ALCAM), mRNA
11137	24097		2.43	1.0E-71	AV761217.1	EST_HUMAN	AV761217 MDS Homo sapiens cDNA clone MDSEIA03 5'
11228	24181	37709	2.12	1.0E-71	11418903	NT	Homo sapiens coagulation factor XIII, A1 polypeptide (F13A1), mRNA
11481	24424	37973	2.27	1.0E-71	11417191	NT	Homo sapiens leucylcystinyl aminopeptidase (LNPEP), mRNA
11481	24424	37974	2.27	1.0E-71	11417191	NT	Homo sapiens leucylcystinyl aminopeptidase (LNPEP), mRNA
12681	25349		3.13	1.0E-71	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
407	13480	28414	1.23	9.0E-72	AI857635.1	EST_HUMAN	wk95g03.x1 NCL CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2423188 3' similar to TR:O86705 O86705 HYPOTHETICAL 38.6 KD PROTEIN. ;contains Alu repetitive element
407	13480	28415	1.23	9.0E-72	AI857635.1	EST_HUMAN	wk95g03.x1 NCL CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2423188 3' similar to TR:O86705 O86705 HYPOTHETICAL 38.6 KD PROTEIN. ;contains Alu repetitive element
6232	19306	32538	0.99	8.0E-72	BF035752.1	EST_HUMAN	601468747F1 NIH_MGC_88 Homo sapiens cDNA clone IMAGE:3862481 5'
11444	24387	37927	2.55	8.0E-72	11424480	NT	Homo sapiens nuclear RNA helicase, DECD variant of DEAD box family (DDXL), mRNA
11444	24387	37928	2.55	8.0E-72	11424480	NT	Homo sapiens nuclear RNA helicase, DECD variant of DEAD box family (DDXL), mRNA
11444	24387	37929	2.55	8.0E-72	11424480	NT	Homo sapiens nuclear RNA helicase, DECD variant of DEAD box family (DDXL), mRNA
4139	17170	30056	1.24	7.0E-72	4501866	NT	Homo sapiens aconitase 2, mitochondrial (ACO2), nuclear gene encoding mitochondrial protein, mRNA
4139	17170	30057	1.24	7.0E-72	4501866	NT	Homo sapiens aconitase 2, mitochondrial (ACO2), nuclear gene encoding mitochondrial protein, mRNA
4139	17170	30058	1.24	7.0E-72	4501866	NT	Homo sapiens aconitase 2, mitochondrial (ACO2), nuclear gene encoding mitochondrial protein, mRNA
7331	20302	33646	2.87	7.0E-72	S41694.1	NT	{pseudogene} PTMAP2=prothymosin alpha [human, Genomic, 1192 nt, segment 2 of 3]
12800	25428		1.52	7.0E-72	F26259.1	EST_HUMAN	HSPD13670 HM3 Homo sapiens cDNA clone s4000051(G02
8727	21695		4.9	6.0E-72	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
65	13184	26102	4.86	5.0E-72	BF333707.1	EST_HUMAN	QV0-CS0010-150900-398-e11 CS0010 Homo sapiens cDNA
65	13184	26103	4.86	5.0E-72	BF333707.1	EST_HUMAN	QV0-CS0010-150900-398-e11 CS0010 Homo sapiens cDNA
66	13184	26102	13.05	5.0E-72	BF333707.1	EST_HUMAN	QV0-CS0010-150900-398-e11 CS0010 Homo sapiens cDNA
66	13184	26103	13.05	5.0E-72	BF333707.1	EST_HUMAN	QV0-CS0010-150900-398-e11 CS0010 Homo sapiens cDNA
1141	14184		2.75	5.0E-72	L11645.1	NT	Homo sapiens alpha-tubulin mRNA, complete cds
7138	20114	33427	1.85	5.0E-72	AU128584.1	EST_HUMAN	AU128584 NT2RP2 Homo sapiens cDNA clone NT2RP20037/51 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8163	21101	34500	0.55	5.0E-72	AA316632.1	EST_HUMAN	EST188312 HCC cell line (metastasis to liver in mouse) Homo sapiens cDNA 5' end similar to similar to FAC1
9129	22095	35523	4.14	5.0E-72	AW161274.1	EST_HUMAN	au80c03.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2782564 5' similar to TR:Q99785 Q99785 HYPOTHETICAL 32.4 KD PROTEIN ;contains element MSR1 repetitive element ;
10320	23244	36724	0.56	5.0E-72	AV724632.1	EST_HUMAN	AV724632 HTB Homo sapiens cDNA clone HTBAKB01 5'
11573	24511	38067	2.74	5.0E-72	BF331571.1	EST_HUMAN	MR4-BT0598-010600-005-405 BT0598 Homo sapiens cDNA
11573	24511	38068	2.74	5.0E-72	BF331571.1	EST_HUMAN	MR4-BT0598-010600-005-405 BT0598 Homo sapiens cDNA
12389	25929		2.52	5.0E-72	BE926645.1	EST_HUMAN	QV1-BT0632-280800-342-a10 BT0632 Homo sapiens cDNA
4960	17877		1.12	4.0E-72	11034844	NT	Homo sapiens hypothetical protein dJ1057B20.2 (DJ1057B20.2), mRNA
5540	18637	31577	0.75	4.0E-72	AF170025.1	NT	Homo sapiens zinc finger protein ZFP-95 (ZFP95) mRNA, alternatively spliced, complete cds
6709	19765	33045	0.83	4.0E-72	T87947.1	EST_HUMAN	y493a01.r1 Soares fetal liver spleen 1NFSL Homo sapiens cDNA clone IMAGE:115752 5' similar to SP:A44282 A44282 RETROVIRUS-RELATED POL POLYPROTEIN - HUMAN ;
7639	20599	33963	1.28	4.0E-72	5729867	NT	Homo sapiens hect domain and RLD 2 (HERC2), mRNA
10143	23069	36545	1.24	4.0E-72	8923699	NT	Homo sapiens hypothetical protein FLJ20758 (FLJ20758), mRNA
10758	23679	37174	0.49	4.0E-72	AW836230.1	EST_HUMAN	RC3-LT0023-200100-012-d11 LT0023 Homo sapiens cDNA
10758	23679	37175	0.49	4.0E-72	AW836230.1	EST_HUMAN	RC3-LT0023-200100-012-d11 LT0023 Homo sapiens cDNA
10786	23707	37208	1.24	4.0E-72	A1248796.1	EST_HUMAN	qh67a02.x1 Soares fetal liver spleen 1NFSL_S1 Homo sapiens cDNA clone IMAGE:1849730 3' similar to TR:Q14498 Q14498 SPLICING FACTOR. [1]; contains Alu repetitive element;contains element L1 repetitive element;
11616	24554	38115	1.54	4.0E-72	AA465388.1	EST_HUMAN	aa23f09.s1 NCI_CGAP_GOB1 Homo sapiens cDNA clone IMAGE:814121 3' similar to SW:CPTR_FLAPR P49131 CHLOROPLAST TRIOSE PHOSPHATE TRANSLOCATOR PRECURSOR. ;
11616	24554	38116	1.54	4.0E-72	AA465388.1	EST_HUMAN	aa23f09.s1 NCI_CGAP_GOB1 Homo sapiens cDNA clone IMAGE:814121 3' similar to SW:CPTR_FLAPR P49131 CHLOROPLAST TRIOSE PHOSPHATE TRANSLOCATOR PRECURSOR. ;
11857	24739	38324	5.09	4.0E-72	H79421.1	EST_HUMAN	y428a03.r1 Soares fetal liver spleen 1NFSL Homo sapiens cDNA clone IMAGE:235084 5'
11988	24865	38461	1.72	4.0E-72	T81910.1	EST_HUMAN	y428a09.s1 Soares fetal liver spleen 1NFSL Homo sapiens cDNA clone IMAGE:109849 3'
12728	25382	31748	4.28	4.0E-72	AJ277546.2	NT	Homo sapiens WEE1 gene for protein kinase and partial ZNF143 gene for zinc finger transcription factor
21	13141	26039	1.99	3.0E-72	5031976	NT	Homo sapiens pre-B-cell colony-enhancing factor (PBEF) mRNA
904	13959		1.23	3.0E-72	AA723823.1	EST_HUMAN	ah63a06.s1 Soares testis NHT Homo sapiens cDNA clone 1310290 3'
1159	14201	27152	5.57	3.0E-72	U16306.1	NT	Human chondroitin sulfate proteoglycan versican V0 splice-variant precursor peptide mRNA, complete cds
1159	14201	27153	5.57	3.0E-72	U16306.1	NT	Human chondroitin sulfate proteoglycan versican V0 splice-variant precursor peptide mRNA, complete cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1198	14238	27193	0.71	3.0E-72	U80226.1	NT	Human gamma-aminobutyric acid transaminase mRNA, partial cds
1198	14238	27194	0.71	3.0E-72	U80226.1	NT	Human gamma-aminobutyric acid transaminase mRNA, partial cds
1523	14555	27528	1.45	3.0E-72	BE242161.1	EST_HUMAN	TCAAP1E1252 Pediatric acute myelogenous leukemia cell (FAB M1) Baylor-HGSC project=TCAA Homo sapiens cDNA clone TCAAP1252
3090	18148	28062	13.28	3.0E-72	AJ229043.1	NT	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22, segment 3/3
3292	16345	28265	2.41	3.0E-72	8923548	NT	Homo sapiens hypothetical protein FLJ20585 (FLJ20585), mRNA
3836	18878	29778	2.52	3.0E-72	S77589.1	NT	TOR V delta 2-C alpha =T-cell receptor delta and C alpha fusion gene (alternatively spliced, splice junction) [human, precursor B-cell line REH, mRNA Partial, 211 nt]
4578	17598	30492	3.77	3.0E-72	11418198	NT	Homo sapiens hypothetical protein (FLJ11127), mRNA
4800	17817	30710	1.31	3.0E-72	AF167572.1	NT	Homo sapiens protein methyltransferase (JBP1) mRNA, complete cds
4800	17817	30711	1.31	3.0E-72	AF167572.1	NT	Homo sapiens protein methyltransferase (JBP1) mRNA, complete cds
5149	18158	31037	1.02	3.0E-72	AW959877.1	EST_HUMAN	EST371747 MAGe resequences, MAGF Homo sapiens cDNA
5598	18694		1.06	3.0E-72	4759093	NT	Homo sapiens semaphorin W (SEMAW) mRNA
6092	19171	32386	1.91	3.0E-72	AF079387.1	NT	Homo sapiens growth factor receptor-bound protein 10 (GRB10) gene, exon 5
6092	19171	32387	1.91	3.0E-72	AF079387.1	NT	Homo sapiens growth factor receptor-bound protein 10 (GRB10) gene, exon 5
6290	19362	32600	4.78	3.0E-72	AB029004.1	NT	Homo sapiens mRNA for KIAA1081 protein, partial cds
6290	19362	32601	4.78	3.0E-72	AB029004.1	NT	Homo sapiens mRNA for KIAA1081 protein, partial cds
6767	19821	33103	3.89	3.0E-72	4826987	NT	Homo sapiens ribosomal protein L3-like (RPL3L) mRNA
7838	20785	34160	1.87	3.0E-72	U80017.1	NT	Homo sapiens basic transcription factor 2 p44 (btf2p44) gene, partial cds, neuronal apoptosis inhibitory protein (naip) and survival motor neuron protein (smn) genes, complete cds
8516	21484	34898	1.07	3.0E-72	5031892	NT	Homo sapiens nuclear receptor subfamily 1, group H, member 3 (NR1H3), mRNA
10797	23718	37220	7.09	3.0E-72	X98289.1	NT	Homo sapiens S100A12 gene for Calgranulin C, exon 2 and joined cds
11912	24763	38363	3.23	3.0E-72	11424091	NT	Homo sapiens CD37 antigen (CD37), mRNA
11912	24763	38384	3.23	3.0E-72	11424091	NT	Homo sapiens CD37 antigen (CD37), mRNA
12078	24950	38545	3.58	3.0E-72	AF190884.1	NT	Homo sapiens ADP-ribosylation factor binding protein GGA3 (GGA3) mRNA, complete cds
							Homo sapiens solute carrier family 13 (sodium-dependent dicarboxylate transporter), member 2 (SLC13A2), mRNA
6069	19150	32362	1.53	2.0E-72	11428671	NT	mRNA
9451	22415	35852	0.62	2.0E-72	BF308560.1	EST_HUMAN	601890419F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4131461 5'
9451	22415	35853	0.62	2.0E-72	BF308560.1	EST_HUMAN	601890419F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4131461 5'
							q128609.s1 Soares testis_NHT Homo sapiens cDNA clone 1391609 3' similar to gb:X02087 H.sapiens mRNA for 7SL RNA pseudogene (HUMAN);
11092	24052	37575	2.4	2.0E-72	AA789277.1	EST_HUMAN	Rattus norvegicus putative phosphate/phosphonopyruvate translocator mRNA, complete cds
12726	25379	31745	6.47	2.0E-72	AF182714.1	NT	Homo sapiens vacuolar protein sorting 41 (yeast homolog) (VPS41), mRNA
5861	18950	32136	3.78	1.0E-72	7657676	NT	Homo sapiens myosin, heavy polypeptide 13, skeletal muscle (MYH13), mRNA
6711	19767	33046	1.24	1.0E-72	11321578	NT	

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Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6711	19767	33047	1.24	1.0E-72	11321578	NT	Homo sapiens myosin, heavy polypeptide 13, skeletal muscle (MYH13), mRNA
6788	25668	33126	1.3	1.0E-72	AV751818.1	EST_HUMAN	AV751818 NP0 Homo sapiens cDNA clone NPDAIE11 5'
7899	20842	34224	3.72	1.0E-72	BE175434.1	EST_HUMAN	RC4-HT0578-170300-012-g02 HT0578 Homo sapiens cDNA
7899	20842	34225	3.72	1.0E-72	BE175434.1	EST_HUMAN	RC4-HT0578-170300-012-g02 HT0578 Homo sapiens cDNA
9949	22876	36338	7.79	1.0E-72	AF222742.1	NT	Homo sapiens synaptic glycoprotein SC2 (SC2) mRNA, complete cds
9949	22876	36339	7.79	1.0E-72	AF222742.1	NT	Homo sapiens synaptic glycoprotein SC2 (SC2) mRNA, complete cds
1455	14488	27463	1.53	9.0E-73	AW374968.1	EST_HUMAN	MRO-CT0063-071099-002-h11 CT0063 Homo sapiens cDNA
6156	19231	32462	0.94	9.0E-73	11525893	NT	Homo sapiens membrane protein, palmitoylated 3 (MAGUK p55 subfamily member 3) (MPP3), mRNA
11297	24247		18.46	9.0E-73	11424089	NT	Homo sapiens ribosomal protein L13a (RPL13A), mRNA
1039	14084	27035	0.93	8.0E-73	AW071755.1	EST_HUMAN	ws55c06.x1 NCI CGAP Brn25 Homo sapiens cDNA clone IMAGE:2501098 3' similar to TR:Q59050
5660	18756	31924	0.79	8.0E-73	4505798	NT	Q59050 HYPOTHETICAL PROTEIN MJ1656.1
6724	19780	33059	5.01	8.0E-73	11426469	NT	Homo sapiens phosphatidylinositol 3-kinase, class 2, alpha polypeptide (PIK3C2A) mRNA
8432	21401	34814	2.3	8.0E-73	AF113129.1	NT	Homo sapiens lysosome homologue (LOC57151), mRNA
							Homo sapiens vacuolar ATPase isoform VA88 mRNA, complete cds
9708	22661	36117	7.24	8.0E-73	BE019900.1	EST_HUMAN	bb2a06.y1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3030034 5' similar to gb:U04098 cds1 ACTIN, CYTOPLASMIC 2 (HUMAN); gb:M21495 Mouse cytoskeletal gamma-actin mRNA, complete cds (MOUSE);
10097	23023	36497	2.34	8.0E-73	11526037	NT	Homo sapiens interleukin 12 receptor, beta 1 (IL12RB1), mRNA
10097	23023	36498	2.34	8.0E-73	11526037	NT	Homo sapiens interleukin 12 receptor, beta 1 (IL12RB1), mRNA
12010	24887	38483	3.54	8.0E-73	AF084520.1	NT	Homo sapiens brefeldin A-inhibited guanine nucleotide-exchange protein 1 mRNA, complete cds
12785	25418	31735	3.45	8.0E-73	11418189	NT	Homo sapiens thyroid autoantigen 70kD (Ku antigen) (G22P1), mRNA
1136	14179	27130	1.3	7.0E-73	8923280	NT	Homo sapiens hypothetical protein FLJ20309 (FLJ20309), mRNA
3312	16365	29285	1	7.0E-73	AL163206.2	NT	Homo sapiens chromosome 21 segment HS21C006
4981	17996		1.74	7.0E-73	AL163282.2	NT	Homo sapiens chromosome 21 segment HS21C082
159	13262		2.28	6.0E-73	AL163218.2	NT	Homo sapiens chromosome 21 segment HS21C018
7378	20348	33699	3.58	6.0E-73	BE166574.1	EST_HUMAN	QV0-HT0494-020300-137-c03 HT0494 Homo sapiens cDNA
5326	18432	31184	2.11	4.0E-73	11422159	NT	Homo sapiens HELG protein (FAM44A), mRNA
1344	14379	27348	1.16	3.0E-73	AW843789.1	EST_HUMAN	CMB-CN0044-260100-184-f08 CN0044 Homo sapiens cDNA
1879	14904	27904	1.34	3.0E-73	11435913	NT	Homo sapiens heme-binding protein (HEBP), mRNA
1879	14904	27905	1.34	3.0E-73	11435913	NT	Homo sapiens heme-binding protein (HEBP), mRNA
6856	19909	33204	0.86	3.0E-73	AA136403.1	EST_HUMAN	zn95e04.s1 Stratiene fetal retina 937202 Homo sapiens cDNA clone IMAGE:565950 3' similar to gb:Z23064 cds1 HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN G (HUMAN);
9111	22077	35503	0.54	3.0E-73	AV729428.1	EST_HUMAN	AV729428 HTC Homo sapiens cDNA clone HTCAAF071 5'

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Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9111	22077	35504	0.54	3.0E-73	AV729428.1	EST_HUMAN	AV729428 HTC Homo sapiens cDNA clone HTCAAF071 5'
11047	24011		1.65	3.0E-73	X09660.1	NT	H. sapiens SH3GLP2 pseudogene, 5' end
13017	25567		1.35	3.0E-73	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
13021	25569		1.97	3.0E-73	AW898081.1	EST_HUMAN	RC3-NN0066-270400-011-c04 NN0066 Homo sapiens cDNA
852	13908	25866	1.9	2.0E-73	AF139837.1	NT	Homo sapiens BASS1 (BASS1) mRNA, partial cds
1963	14985		2.95	2.0E-73	AW898081.1	EST_HUMAN	RC3-NN0066-270400-011-c04 NN0066 Homo sapiens cDNA
2306	15318		1.58	2.0E-73	U01317.1	NT	Human beta globin region on chromosome 11
3196	16251	25170	3.89	2.0E-73	4502582	NT	Homo sapiens caspase 8, apoptosis-related cysteine protease (CASP8) mRNA
3561	16607	29527	0.77	2.0E-73	7669539	NT	Homo sapiens Parkinson disease (autosomal recessive, juvenile) 2, parkin (PARK2), transcript variant 3, mRNA
3561	16607	29528	0.77	2.0E-73	7669539	NT	Homo sapiens Parkinson disease (autosomal recessive, juvenile) 2, parkin (PARK2), transcript variant 3, mRNA
6577	19637	32902	0.7	2.0E-73	AF096824.1	NT	Mus musculus rho/tau-interacting citron kinase (Crik) mRNA, complete cds
6577	19637	32903	0.7	2.0E-73	AF096824.1	NT	Mus musculus rho/tau-interacting citron kinase (Crik) mRNA, complete cds
6627	19685	32964	6.38	2.0E-73	AB046811.1	NT	Homo sapiens mRNA for KIAA1591 protein, partial cds
6658	19911	33206	1.52	2.0E-73	11431471	NT	Homo sapiens interleukin 4 receptor (IL4R), mRNA
6858	19911	33207	1.52	2.0E-73	11431471	NT	Homo sapiens interleukin 4 receptor (IL4R), mRNA
8092	21028	34427	0.59	2.0E-73	M94048.1	NT	Human peripheral myelin protein 22 mRNA, complete cds
8099	21035	34435	0.77	2.0E-73	AB037750.1	NT	Homo sapiens mRNA for KIAA1329 protein, partial cds
9890	22843	36299	0.55	2.0E-73	AF198349.1	NT	Gallus gallus Dach2 protein (Dach2) mRNA, complete cds
9890	22843	36300	0.55	2.0E-73	AF198349.1	NT	Gallus gallus Dach2 protein (Dach2) mRNA, complete cds
10788	23709	37211	1.12	2.0E-73	4504168	NT	Homo sapiens glutathione synthetase (GSS) mRNA
10863	23783	37284	1.69	2.0E-73	11496980	NT	Homo sapiens supervillin (SVIL), transcript variant 1, mRNA
10863	23783	37285	1.69	2.0E-73	11496980	NT	Homo sapiens supervillin (SVIL), transcript variant 1, mRNA
11107	24067	37589	1.49	2.0E-73	11431598	NT	Homo sapiens KIAA1080 protein; Golgi-associated, gamma-adaptin ear containing, ARF-binding protein 2 (KIAA1080), mRNA
11395	24341	37872	2.64	2.0E-73	4557612	NT	Homo sapiens galactosylceramidase (Krabbe disease) (GALC), mRNA
11395	24341	37873	2.64	2.0E-73	4557612	NT	Homo sapiens galactosylceramidase (Krabbe disease) (GALC), mRNA
11420	24364	37899	1.81	2.0E-73	AB028982.1	NT	Homo sapiens mRNA for KIAA1059 protein, partial cds
12581	14985		1.81	2.0E-73	AW898081.1	EST_HUMAN	RC3-NN0066-270400-011-c04 NN0066 Homo sapiens cDNA
1798	14827	27814	2.81	1.0E-73	AU121585.1	EST_HUMAN	AU121585 MAMMA1 Homo sapiens cDNA clone MAMMA1000490 5'
6495	19559	32810	1.2	1.0E-73	BE151283.1	EST_HUMAN	CM1-HT0282-11199-042-h10 HT0282 Homo sapiens cDNA
9857	22793	36244	1.47	1.0E-73	AI147427.1	EST_HUMAN	qg61b07.r1 Scores_NHT Homo sapiens cDNA clone IMAGE:1839637 5' similar to contains element MER22 repetitive element

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11779	23934	37455	2.1	1.0E-73	BE385477.1	EST_HUMAN	601276071F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3817105 5'
742	13803	26742	1.47	8.0E-74	4957428	NT	Homo sapiens CD39-like 4 (CD39L4) mRNA
6021	19104	32306	1.84	8.0E-74	S83194.1	NT	Ca2+/calmodulin-dependent protein kinase IV kinase isoform [rats, brain, mRNA, 3429 nt]
6021	19104	32307	1.84	8.0E-74	S83194.1	NT	Ca2+/calmodulin-dependent protein kinase IV kinase isoform [rats, brain, mRNA, 3429 nt]
1966	14987	27989	4.43	7.0E-74	AJ001689.1	NT	Homo sapiens NKG2D gene, exon 10
3339	16390	28311	2.01	7.0E-74	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
9598	22602	36051	2.25	7.0E-74	BE967432.1	EST_HUMAN	601849284F1 NIH_MGC_73 Homo sapiens cDNA clone IMAGE:3932997 5'
12794	25417	31734	4.84	7.0E-74	BE268305.1	EST_HUMAN	601191927F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3535855 5'
1124	14168	27120	5.19	6.0E-74	AF109907.1	NT	Homo sapiens S164 gene, partial cds; P51 and hypothetical protein genes, complete cds; and S171 gene, partial cds
1631	14864	27639	1.03	6.0E-74	AW263177.1	EST_HUMAN	xt78g07.x1 Soares_NFL_T_GBC_S11 Homo sapiens cDNA clone IMAGE:2700636 3'
2324	15335	28357	7.92	6.0E-74	BE388260.1	EST_HUMAN	601283521F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3805453 5'
2324	15335	28358	7.92	6.0E-74	BE388260.1	EST_HUMAN	601283521F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3805453 5'
2875	15934	28852	1.12	6.0E-74	AW014039.1	EST_HUMAN	U1-H-B10-aah-h-03-Q-U1.s1 NCI CGAP Sub1 Homo sapiens cDNA clone IMAGE:2709365 3'
2875	15934	28853	1.12	6.0E-74	AW014039.1	EST_HUMAN	U1-H-B10-aah-h-03-Q-U1.s1 NCI CGAP Sub1 Homo sapiens cDNA clone IMAGE:2709365 3'
3728	16768	29679	1.28	6.0E-74	BE048846.1	EST_HUMAN	tr54e11.x1 NCI CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3132332 3'
3726	16768	29680	1.28	6.0E-74	BE048846.1	EST_HUMAN	tr54e11.x1 NCI CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3132332 3'
5065	18075	30955	4.18	6.0E-74	4758135	NT	Homo sapiens DEADH (Asp-Glu-Ala-Asp/His) box polypeptide 11 (S.cerevisiae CHL1-like helicase) (DDX11) mRNA
5065	18075	30956	4.18	6.0E-74	4758135	NT	Homo sapiens DEADH (Asp-Glu-Ala-Asp/His) box polypeptide 11 (S.cerevisiae CHL1-like helicase) (DDX11) mRNA
5439	18541	31451	3.08	6.0E-74	11056013	NT	Homo sapiens actin filament associated protein (AFAP), mRNA
906	13961	26917	2.09	5.0E-74	AW020986.1	EST_HUMAN	df17c09.y1 Morton Fetal Cochlea Homo sapiens cDNA clone IMAGE:2483704 5'
2713	15707	31492	3.68	5.0E-74	AW362756.1	EST_HUMAN	PMO-CT0289-271099-001-h07 CT0289 Homo sapiens cDNA
5481	18581	31492	1.76	5.0E-74	11425417	NT	Homo sapiens phosphatidylinositol glycan, class L (PIGL), mRNA
5887	18976	32168	12.05	5.0E-74	X89670.1	NT	H.sapiens mRNA for TPCR16 protein
5888	19024	32218	7.23	5.0E-74	4507968	NT	Homo sapiens VAMP (vesicle-associated membrane protein)-associated protein A (33kD) (VAPA) mRNA, and translated products
6013	19096	32296	2.71	5.0E-74	11431471	NT	Homo sapiens interleukin 4 receptor (IL4R), mRNA
6013	19096	32297	2.71	5.0E-74	11431471	NT	Homo sapiens interleukin 4 receptor (IL4R), mRNA
7080	20101	33412	2.18	5.0E-74	7662263	NT	Homo sapiens KIAA0716 gene product (KIAA0716), mRNA
7932	20101	33412	0.54	5.0E-74	7662263	NT	Homo sapiens KIAA0716 gene product (KIAA0716), mRNA
8371	21340	34751	3.05	5.0E-74	11345483	NT	Homo sapiens hypothetical protein FLJ13222 (FLJ13222), mRNA
11087	24048	37570	4.06	5.0E-74	Y09420.1	NT	H.sapiens mRNA for HIP-1

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11087	24048	37571	4.08	5.0E-74	Y09420.1	NT	H.sapiens mRNA for HIP-1
278	13374	26303	1.85	4.0E-74	D87875.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
853	13909	26867	5.8	4.0E-74	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
1979	15000	28002	2.21	4.0E-74	AB028898.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
1978	15000	28003	2.21	4.0E-74	AB028898.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
2086	15103	28120	2.38	4.0E-74	4508192	NT	Homo sapiens proteasome (prosome, macropain) subunit, beta type, 1 (PSMB1) mRNA
2086	15103	28121	2.38	4.0E-74	4508192	NT	Homo sapiens proteasome (prosome, macropain) subunit, beta type, 1 (PSMB1) mRNA
2142	15159	28175	1.51	4.0E-74	AB032894.1	NT	Homo sapiens mRNA for KIAA1168 protein, partial cds
2434	15441	28459	0.91	4.0E-74	AJ006978.1	NT	Homo sapiens PLP gene
3107	18164	29078	5.45	4.0E-74	AJ006978.1	NT	Homo sapiens PLP gene
4091	17125	30018	1.23	4.0E-74	AL163247.2	NT	Homo sapiens chromosome 21 segment HS21C047
4587	17609	30504	2.06	4.0E-74	7682183	NT	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
4587	17667	30554	0.99	4.0E-74	Z17227.1	NT	Homo sapiens mRNA for transmembrane receptor protein
5055	18067	30946	0.74	4.0E-74	AB040809.1	NT	Homo sapiens mRNA for KIAA1478 protein, partial cds
8895	21861		21.61	3.0E-74	AA300378.1	EST_HUMAN	EST13131 Thymus tumor III Homo sapiens cDNA 5' end similar to ribosomal protein L37
9727	22755	36208	2.57	3.0E-74	M78984.1	EST_HUMAN	EST01132 Subtracted Hippocampus, Stratagene (cat. #938205) Homo sapiens cDNA clone HHCPFF91
10703	23825	37122	2.69	3.0E-74	AA601493.1	EST_HUMAN	no17g05.s1 NCJ CGAP_Phe1 Homo sapiens cDNA clone IMAGE:1100984 3'
959	14012	26955	58.94	2.0E-74	7689491	NT	Homo sapiens glyceraldehyde-3-phosphate dehydrogenase (GAPD), mRNA
959	14012	26956	58.94	2.0E-74	7689491	NT	Homo sapiens glyceraldehyde-3-phosphate dehydrogenase (GAPD), mRNA
1178	14220	27178	0.9	2.0E-74	AF020092.1	NT	Human endogenous retrovirus HERV-K-T47D
1249	14285	27251	1.32	2.0E-74	AI950528.1	EST_HUMAN	wx51607.x1 NCJ CGAP_Lu28 Homo sapiens cDNA clone IMAGE:2547204 3' similar to SW:GG95_HUMAN Q08379 GOLGIN-96; contains element MER22 repetitive element;
1599	14831	27606	3.54	2.0E-74	4885198	NT	Homo sapiens epidermal growth factor receptor (avian erythroblastic leukemia viral (v-erb-b) oncogene homolog) (EGFR) mRNA
1599	14831	27607	3.54	2.0E-74	4885198	NT	Homo sapiens epidermal growth factor receptor (avian erythroblastic leukemia viral (v-erb-b) oncogene homolog) (EGFR) mRNA
2609	15608	28632	3.02	2.0E-74	AJ557280.1	EST_HUMAN	PT2.1_15_G11.r tumor2 Homo sapiens cDNA 3'
5042	18055	30933	3.67	2.0E-74	AL355092.1	NT	Novel human gene mapping to chromosome 22
5042	18055	30934	3.67	2.0E-74	AL355092.1	NT	Novel human gene mapping to chromosome 22
5046	18059	30938	0.93	2.0E-74	JO2963.1	NT	Human platelet glycoprotein IIb mRNA, 3' end
5896	25847	32174	2.03	2.0E-74	BE711134.1	EST_HUMAN	RC8-HT0678-220500-011-C03 HT0678 Homo sapiens cDNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5999	25650	32280	1.93	2.0E-74	11439587	NT	Homo sapiens PDZ-73 protein (PDZ-73/NY-CO-38), mRNA
5999	25650	32281	1.93	2.0E-74	11439587	NT	Homo sapiens PDZ-73 protein (PDZ-73/NY-CO-38), mRNA
6077	25650	32280	2.58	2.0E-74	11439587	NT	Homo sapiens PDZ-73 protein (PDZ-73/NY-CO-38), mRNA
6077	25650	32281	2.58	2.0E-74	11439587	NT	Homo sapiens PDZ-73 protein (PDZ-73/NY-CO-38), mRNA
7310	20281	33621	1.14	2.0E-74	BF030788.1	EST_HUMAN	601557524F1 NIH_MGC 58 Homo sapiens cDNA clone IMAGE:3827549 5'
8272	21241	34652	1.35	2.0E-74	AB037816.1	NT	Homo sapiens mRNA for KIAA1395 protein, partial cds
9737	22765	36220	8.08	2.0E-74	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
12058	24931	38528	1.72	2.0E-74	5453965	NT	Homo sapiens protein kinase, AMP-activated, alpha 2 catalytic subunit (PRKAA2) mRNA
12521	25252		3.11	2.0E-74	AA196181.1	EST_HUMAN	zp98006.s1 Stragene muscle 937209 Homo sapiens cDNA clone IMAGE:628018 3'
55	13175	26086	2.22	1.0E-74	7657334	NT	Homo sapiens Mischapen/NIK-related kinase (MINK), mRNA
337	13426	26348	3.95	1.0E-74	AW816405.1	EST_HUMAN	QV4-ST0234-181199-037-r05 ST0234 Homo sapiens cDNA
500	13572	26484	1.1	1.0E-74	8622829	NT	Homo sapiens hypothetical protein FLJ11026 (FLJ11026), mRNA
507	13578	26499	8.18	1.0E-74	X02344.1	NT	Homo sapiens beta 2 gene
603	13670	26594	2.15	1.0E-74	4508020	NT	Homo sapiens zinc finger protein 259 (ZNF259) mRNA
1001	14052	27004	2.21	1.0E-74	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
2235	15249	28273	3.56	1.0E-74	AB002059.1	NT	Homo sapiens DNA for Human P2XM1, complete cds
3156	16212	29127	2.83	1.0E-74	4758697	NT	Homo sapiens mannosidase, alpha, class 2A, member 1 (MAN2A1), mRNA
3943	16983	29898	0.79	1.0E-74	4504116	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
3943	16983	29899	0.79	1.0E-74	4504116	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
3992	17032	29941	5.75	1.0E-74	AL163268.2	NT	Homo sapiens chromosome 21 segment HS21C068
4092	17126	30019	0.96	1.0E-74	BE083080.1	EST_HUMAN	RC2-BT0642-270300-019-r06 BT0642 Homo sapiens cDNA
4296	17325	30205	0.71	1.0E-74	BE467769.1	EST_HUMAN	h273h08.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3213663 3' similar to WP.B0511.12
5217	18226	31100	1.36	1.0E-74	D83327.1	NT	CE17351 ;
6863	19916	33210	0.97	1.0E-74	M89914.1	NT	Homo sapiens DORR1 mRNA, partial cds
7888	20832	34211	1.17	1.0E-74	11417977	NT	Human neurofilamin (NF1) gene, complete cds
8391	21360	34767	1.1	1.0E-74	BE549105.1	EST_HUMAN	Homo sapiens KIAA0852 protein (KIAA0852), mRNA
8391	21360	34768	1.1	1.0E-74	BE549105.1	EST_HUMAN	601070088F1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3456260 5'
9157	22123	35552	3.86	1.0E-74	AF214562.1	NT	601070088F1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3456260 5'
9186	22152	35581	0.71	1.0E-74	BF351951.1	EST_HUMAN	Homo sapiens tracheal epithelium enriched protein (PLUNC) gene, complete cds
10600	23522	37015	0.55	1.0E-74	AJ251550.1	NT	MRO-HT05559-230500-021-a03 HT0559 Homo sapiens cDNA
10600	23522	37016	0.55	1.0E-74	AJ251550.1	NT	Homo sapiens partial AK155 gene for AK155 protein, exons 1-3 and joined CDS
10847	23767	37266	1.51	1.0E-74	11420549	NT	Homo sapiens partial AK155 gene for AK155 protein, exons 1-3 and joined CDS
12100	24971	38568	1.5	1.0E-74	AB007941.1	NT	Homo sapiens hypothetical protein FLJ10783 (FLJ10783), mRNA
							Homo sapiens mRNA for KIAA0472 protein, partial cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12154	25012	38616	3.9	1.0E-74	11417856	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2), mRNA
12335	25067		7.14	1.0E-74	11417856	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2), mRNA
12848	25458		1.52	1.0E-74	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
2652	15649		6.34	8.0E-75	AF176228.1	NT	Homo sapiens DNA cytosine-5 methyltransferase 3B (DNMT3B) mRNA, complete cds
12543	25266		1.81	8.0E-75	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
2329	15340	28392	1.16	6.0E-75	AB1817415.1	EST_HUMAN	wk3Ba08.x1 NCI_CGAP_P22 Homo sapiens cDNA clone IMAGE:2417654 3' similar to gb:M14123_cds4 RETROVIRUS-RELATED POL POLYPROTEIN (HUMAN);
5201	18210	31084	0.91	5.0E-75	BE841305.1	EST_HUMAN	MRO-SN00040-080600-008-g06 SNO040 Homo sapiens cDNA
8075	21012	34411	0.51	5.0E-75	AA573446.1	EST_HUMAN	nk99d03.s1 NCI_CGAP_C03 Homo sapiens cDNA clone IMAGE:1028933 3'
8076	21012	34412	0.51	5.0E-75	AA573446.1	EST_HUMAN	nk99d03.s1 NCI_CGAP_C03 Homo sapiens cDNA clone IMAGE:1028933 3'
9289	22225	35654	1.13	5.0E-75	BE272325.1	EST_HUMAN	801126068F1 NIH_MGC_g9 Homo sapiens cDNA clone IMAGE:2889865 5'
9472	22436	35874	0.64	5.0E-75	AA132811.1	EST_HUMAN	zo17608.r1 Stratagene colon (#837204) Homo sapiens cDNA clone IMAGE:587174 5'
9549	22512	35981	0.89	5.0E-75	BE561655.1	EST_HUMAN	601346909F1 NIH_MGC_g8 Homo sapiens cDNA clone IMAGE:3687488 5'
8549	22512	35982	0.89	5.0E-75	BE561655.1	EST_HUMAN	601346909F1 NIH_MGC_g8 Homo sapiens cDNA clone IMAGE:3687488 5'
9728	22756	36209	1.42	5.0E-75	BF690254.1	EST_HUMAN	602186616T1 NIH_MGC_49 Homo sapiens cDNA clone IMAGE:4298738 3'
10594	23516	37007	2.9	5.0E-75	AB638623.1	EST_HUMAN	tt31c12.x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2242390 3' similar to TR:P87361 P97361 HYPOTHETICAL 20.1 KD PROTEIN ;
112	13223	26147	1.68	4.0E-75	BE081333.1	EST_HUMAN	QV1-BT0632-210200-078-e02 BT0632 Homo sapiens cDNA
459	13532		2.66	4.0E-75	N36757.1	EST_HUMAN	yx90h08.r1 Soares melanocyte ZNblHM Homo sapiens cDNA clone IMAGE:269055 5'
1780	14809	27795	1.73	4.0E-75	AW897230.1	EST_HUMAN	CMO-NN0057-150400-335-a11 NN0057 Homo sapiens cDNA
2861	15921	28841	4.5	4.0E-75	BE409464.1	EST_HUMAN	601303865F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3638344 5'
3312	16558	28482	0.63	4.0E-75	8922637	NT	Homo sapiens hypothetical protein FLJ10747 (FLJ10747), mRNA
5607	18703	31859	0.65	4.0E-75	11417946	NT	Homo sapiens NIPSNAP, C. elegans, homolog 1 (NIPSNAP1), mRNA
5607	18703	31860	0.65	4.0E-75	11417946	NT	Homo sapiens NIPSNAP, C. elegans, homolog 1 (NIPSNAP1), mRNA
6400	19468	32715	6.35	4.0E-75	5578457	NT	Homo sapiens eukaryotic translation initiation factor 3, subunit 8 (110KD) (EIF3S8), mRNA
6923	19973	33270	1.61	4.0E-75	11417946	NT	Homo sapiens NIPSNAP, C. elegans, homolog 1 (NIPSNAP1), mRNA
6923	19973	33271	1.61	4.0E-75	11417946	NT	Homo sapiens NIPSNAP, C. elegans, homolog 1 (NIPSNAP1), mRNA
11044	24008	37534	15.05	4.0E-75	7689505	NT	Homo sapiens myosin, heavy polypeptide 1, skeletal muscle, adult (MYH1), mRNA
1004	14955	27007	4.38	3.0E-75	AF157623.1	NT	Homo sapiens HTRA serine protease (PRSS11) gene, complete cds
1005	14955	27007	3.22	3.0E-75	AF157623.1	NT	Homo sapiens HTRA serine protease (PRSS11) gene, complete cds
1853	14879	27875	2.36	3.0E-75	AB011153.1	NT	Homo sapiens mRNA for KIAA0561 protein, partial cds
2430	15437	28454	5.12	3.0E-75	4759163	NT	Homo sapiens synaptonemal-associated protein, 28kD (SNAP29) mRNA
3034	16062	28010	1.06	3.0E-75	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3203	18258	29177	1.13	3.0E-75	AB011153.1	NT	Homo sapiens mRNA for KIAA0581 protein, partial cds
3361	18411	29334	0.95	3.0E-75	M72393.1	NT	Human calcium-dependent phospholipid-binding protein (PLA2) mRNA, complete cds
3361	18411	29335	0.95	3.0E-75	M72393.1	NT	Human calcium-dependent phospholipid-binding protein (PLA2) mRNA, complete cds
3752	16794	29705	0.78	3.0E-75	M72393.1	NT	Human calcium-dependent phospholipid-binding protein (PLA2) mRNA, complete cds
4197	17228	30118	1.03	3.0E-75	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
4466	17492	30378	0.71	3.0E-75	7662421	NT	Homo sapiens KIAA0971 protein (KIAA0971), mRNA
5323	18429	31179	1.15	3.0E-75	11420966	NT	Homo sapiens adaptor-related protein complex 1, sigma 2 subunit (AP1S2), mRNA
5323	18429	31180	1.15	3.0E-75	11420966	NT	Homo sapiens adaptor-related protein complex 1, sigma 2 subunit (AP1S2), mRNA
6657	19714	32991	0.51	3.0E-75	AF123074.1	NT	Homo sapiens cytoplasmic dynein intermediate chain 1 mRNA, complete cds
6657	19714	32992	0.51	3.0E-75	AF123074.1	NT	Homo sapiens cytoplasmic dynein intermediate chain 1 mRNA, complete cds
6935	20159	33479	1.76	3.0E-75	11526319	NT	Homo sapiens HIR (histone cell cycle regulation defective, S. cerevisiae) homolog A (HIRA), mRNA
6935	20159	33480	1.76	3.0E-75	11526319	NT	Homo sapiens HIR (histone cell cycle regulation defective, S. cerevisiae) homolog A (HIRA), mRNA
7342	20313	33656	4.47	3.0E-75	7662209	NT	Homo sapiens KIAA0623 gene product (KIAA0623), mRNA
7342	20313	33657	4.47	3.0E-75	7662209	NT	Homo sapiens KIAA0623 gene product (KIAA0623), mRNA
7884	20828	34204	2.82	3.0E-75	4885632	NT	Homo sapiens Oncogene TIM (TIM) mRNA
7884	20828	34205	2.82	3.0E-75	4885632	NT	Homo sapiens Oncogene TIM (TIM) mRNA
9336	22301	35730	1.21	3.0E-75	11420804	NT	Homo sapiens snail 1 (Drosophila homolog), zinc finger protein (SNAI1), mRNA
10037	22964	36431	0.85	3.0E-75	11420222	NT	Homo sapiens Drosophila Kelch like protein (DKELCHL), mRNA
10908	23828	37341	4.16	3.0E-75	11436430	NT	Homo sapiens synuclein, alpha (non A4 component of amyloid precursor) (SNCA), mRNA
12085	24957	38552	1.73	3.0E-75	6715588	NT	Homo sapiens brefeldin A-inhibited guanine nucleotide-exchange protein 1 (BIG1), mRNA
12085	24957	38553	1.73	3.0E-75	6715588	NT	Homo sapiens brefeldin A-inhibited guanine nucleotide-exchange protein 1 (BIG1), mRNA
5756	18850		1.41	2.0E-75	AV734680.1	EST_HUMAN	AV734680 cdA Homo sapiens cDNA clone cdABED002 5'
9103	22069	35495	2.56	2.0E-75	AI311783.1	EST_HUMAN	qo91e02.x1 NCL CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1915888 3' similar to TR:Q69386 Q69386 POL/ENV GENE;
2311	15323	28345	7.79	1.0E-75	AW168135.1	EST_HUMAN	xg60d02.x1 NCL CGAP_U14 Homo sapiens cDNA clone IMAGE:2632707 3' similar to contains PTR7.11 PTR7 repetitive element;
2957	16015	28943	3.35	1.0E-75	X52221.1	NT	H. sapiens ERCC2 gene, exons 1 & 2 (partial)
4718	17738	30630	0.66	1.0E-75	BE279301.1	EST_HUMAN	601157633F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3504272 5'
5224	18232	31107	0.7	1.0E-75	BE894192.1	EST_HUMAN	601437130F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3922303 5'
7843	20790	34165	0.76	1.0E-75	BE082528.1	EST_HUMAN	RC5-BT0640-020300-031-H03 BT0640 Homo sapiens cDNA
7843	20780	34166	0.76	1.0E-75	BE082528.1	EST_HUMAN	RC5-BT0640-020300-031-H03 BT0640 Homo sapiens cDNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8757	21724		12.42	1.0E-75	AA399270.1	EST_HUMAN	z157h03.s1 Scores testis NHT Homo sapiens cDNA clone IMAGE:726485 3' similar to gb:M13932 40S RIBOSOMAL PROTEIN S17 (HUMAN);
9783	22724	36179	4.03	1.0E-75	BF313645.1	EST_HUMAN	601900294F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4129678 5'
9783	22724	36180	4.03	1.0E-75	BF313645.1	EST_HUMAN	601900294F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4129678 5'
11229	24182		3.79	1.0E-75	AA664377.1	EST_HUMAN	ac77b08.s1 Stratagene lung (#937210) Homo sapiens cDNA clone IMAGE:868599 3'
11428	24372	37910	2.13	1.0E-75	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CAGNA1E) gene, exons 7-49, and partial cds, alternatively spliced
12438	18232	31107	1.72	1.0E-75	BE694192.1	EST_HUMAN	601437130F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3922303 5'
46	13166	26070	2.23	9.0E-76	AI652648.1	EST_HUMAN	wb30b10.x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2307163 3' similar to TR:O75235 O75235 TRAP1;
46	13166	26071	2.23	9.0E-76	AI652648.1	EST_HUMAN	wb30b10.x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2307163 3' similar to TR:O75235 O75235 TRAP1;
2425	15432		0.96	9.0E-76	AA702415.1	EST_HUMAN	285507.s1 Scores fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:447541 3'
10261	23186	36670	37.43	9.0E-76	M12937.1	NT	Human ferritin Heavy subunit mRNA, complete cds
937	13980	26941	0.98	8.0E-76	4504374	NT	Homo sapiens H factor 1 (complement) (HF1) mRNA
937	13990	26942	0.98	8.0E-76	4504374	NT	Homo sapiens H factor 1 (complement) (HF1) mRNA
2921	15979	28904	1.28	8.0E-76	7706724	NT	Homo sapiens mediator (Sur2), mRNA
6295	19367	32606	4.79	8.0E-76	11421442	NT	Homo sapiens LIM domain kinase 1 (LIMK1), mRNA
7731	20686	34049	1.41	8.0E-76	11435215	NT	Homo sapiens serine/threonine kinase 2 (STK2), mRNA
7916	20765	34141	0.97	8.0E-76	11419212	NT	Homo sapiens mitochondrial carrier family protein (LOC55972), mRNA
8639	21607	35030	0.64	8.0E-76	11418961	NT	Homo sapiens AIM-1 protein (LOC51151), mRNA
9453	22417	35855	0.45	8.0E-76	AB046784.1	NT	Homo sapiens mRNA for KIAA1544 protein, partial cds
10744	23668	37161	1.41	8.0E-76	M13792.1	NT	Human adenosine deaminase (ADA) gene, complete cds
11026	23981	37518	4.09	8.0E-76	10442821	NT	Homo sapiens baculoviral IAP repeat-containing 6 (BIRC6), mRNA
12767	25408		2.29	8.0E-76	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
777	13836	28782	1.41	7.0E-76	5016092	NT	Homo sapiens dihydropyrimidin dehydrogenase (E3 component of pyruvate dehydrogenase complex, 2-oxo-glutarate complex, branched chain keto acid dehydrogenase complex) (DLD) mRNA
3305	16358	28277	28.65	7.0E-76	AF056490.1	NT	Homo sapiens cAMP-specific phosphodiesterase 8A (PDE8A) mRNA, partial cds
3311	16364	28284	8.23	7.0E-76	4505052	NT	Homo sapiens lymphocyte antigen 75 (LY75) mRNA, and translated products
4399	17427	30311	4.52	7.0E-76	4507184	NT	Homo sapiens septaplatin reductase (7,8-dihydrobiopterin:NADP+ oxidoreductase) (SPR) mRNA
4399	17427	30312	4.52	7.0E-76	4507184	NT	Homo sapiens septaplatin reductase (7,8-dihydrobiopterin:NADP+ oxidoreductase) (SPR) mRNA
1238	14274		12.96	6.0E-76	BE366253.1	EST_HUMAN	601312019F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3658757 5'
11793	23948	37469	2.36	6.0E-76	BE273201.1	EST_HUMAN	601142253F1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:3506029 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1960	14982	27983	8.97	5.0E-76	D63874.1	NT	Human mRNA for HMG-1, complete cds
1960	14982	27984	8.97	5.0E-76	D63874.1	NT	Human mRNA for HMG-1, complete cds
1960	14982	27985	8.97	5.0E-76	D63874.1	NT	Human mRNA for HMG-1, complete cds
3220	16275	29199	1.01	4.0E-76	BE814096.1	EST_HUMAN	QV3-BN0047-270700-283-q06 BN0047 Homo sapiens cDNA
5342	18447	31200	1.08	4.0E-76	BE783412.1	EST_HUMAN	601471725F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3874470 5'
10384	23306	36783	6.69	4.0E-76	D81625.1	EST_HUMAN	HUM178G01B Human fetal brain (T Fujiiwara) Homo sapiens cDNA clone GEN-178G01 5'
10384	23306	36784	6.69	4.0E-76	D81625.1	EST_HUMAN	HUM178G01B Human fetal brain (T Fujiiwara) Homo sapiens cDNA clone GEN-178G01 5'
630	13695	26814	1.94	3.0E-76	BF516262.1	EST_HUMAN	UI-H-BW1-anz-b-04-0-U1.s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3083862 3'
630	13695	26815	1.94	3.0E-76	BF516262.1	EST_HUMAN	UI-H-BW1-anz-b-04-0-U1.s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3083862 3'
1603	14635	27611	9.36	3.0E-76	4503476	NT	Homo sapiens eukaryotic translation elongation factor 1 beta 2 (EEF1B2) mRNA
1603	14635	27612	9.36	3.0E-76	4503476	NT	Homo sapiens eukaryotic translation elongation factor 1 beta 2 (EEF1B2) mRNA
3442	16489	28407	5.03	3.0E-76	BF375689.1	EST_HUMAN	Homo sapiens cDNA clone ADBBSC02 5'
3442	16489	28408	5.03	3.0E-76	BF375689.1	EST_HUMAN	HSCZQD042 normalized infant brain cDNA Homo sapiens cDNA clone c-zqd04 3'
4105	17139	30034	14.72	3.0E-76	BE348693.1	EST_HUMAN	z073c07.r1 Stragene pancreas (#937208) Homo sapiens cDNA clone IMAGE:592524 5' similar to gb:L32976 MIXED LINEAGE KINASE 1 (HUMAN);
5301	18304	31165	0.68	3.0E-76	AV702981.1	EST_HUMAN	gb:L32976 MIXED LINEAGE KINASE 1 (HUMAN);
5309	18327	38812	2.12	3.0E-76	Z41314.1	EST_HUMAN	wt76c05.x1 Soares thymus_NHFT1 Homo sapiens cDNA clone IMAGE:2535368 3'
5822	18912	32095	1	3.0E-76	AA160611.1	EST_HUMAN	Homo sapiens angiotensin binding protein 1 mRNA, complete cds
6102	19181	32400	0.71	3.0E-76	AW027705.1	EST_HUMAN	yy20g10.r1 Soares melanocyte 2NbHM Homo sapiens cDNA clone IMAGE:271842 5'
6504	19568	32820	8.03	3.0E-76	AF286598.1	EST_HUMAN	xs49h01.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2773009 3'
8490	21458	34876	0.83	3.0E-76	N42671.1	EST_HUMAN	z054d11.r1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:757461 5'
10074	23001	36471	3.32	3.0E-76	AW299353.1	EST_HUMAN	z054d11.r1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:757461 5'
10098	23024	36499	1.08	3.0E-76	AA442309.1	EST_HUMAN	EST380059 MAGe resequences, MAGJ Homo sapiens cDNA
10098	23024	36500	1.08	3.0E-76	AA442309.1	EST_HUMAN	EST386525 MAGe resequences, MAGD Homo sapiens cDNA
12143	25760	31519	2.43	3.0E-76	AW967984.1	EST_HUMAN	Human mRNA for possible protein TPRDII, complete cds
12248	25971	31301	4.4	3.0E-76	AW966455.1	EST_HUMAN	Human mRNA for possible protein TPRDII, complete cds
281	13376	26305	1.46	2.0E-76	D84295.1	NT	Human mRNA for possible protein TPRDII, complete cds
342	13431	26352	2.6	2.0E-76	D84295.1	NT	Human mRNA for possible protein TPRDII, complete cds
342	13431	26363	2.6	2.0E-76	D84295.1	NT	Human mRNA for possible protein TPRDII, complete cds
461	13534		1.14	2.0E-76	4557662	NT	Homo sapiens immunoglobulin (CD79A) binding protein 1 (IGBP1) mRNA
592	13659	26573	1.12	2.0E-76	4503944	NT	Homo sapiens glucagon (GCG) mRNA
1032	14078	27031	1.37	2.0E-76	4758053	NT	Homo sapiens cAMP responsive element binding protein 1 (CREB1) mRNA
1537	14570	27542	1.74	2.0E-76	4504028	NT	Homo sapiens GM2 ganglioside activator protein (GM2A) mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1537	14570	27543	1.74	2.0E-76	4504028	NT	Homo sapiens GM2 ganglioside activator protein (GM2A) mRNA
1945	14969	27967	1.03	2.0E-76	AA253954.1	EST_HUMAN	zs60h11.s1 Stragene schizo brain S11 Homo sapiens cDNA clone IMAGE:701925 3'
2854	15914	28837	3.73	2.0E-76	P23286	SWISSPROT	OLFACTORY RECEPTOR-LIKE PROTEIN F5
3308	16361	29261	1.87	2.0E-76	AA445992.1	EST_HUMAN	zw64e02.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:780986 3' similar to SW:ITB5_HUMAN
3308	16361	29262	1.87	2.0E-76	AA445992.1	EST_HUMAN	P18084 INTEGRIN BETA-5 SUBUNIT PRECURSOR ;
4581	17584	30478	1.01	2.0E-76	AL163283.2	NT	zw64e02.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:780986 3' similar to SW:ITB5_HUMAN
4984	17909	30888	7.6	2.0E-76	AW879618.1	EST_HUMAN	P18084 INTEGRIN BETA-5 SUBUNIT PRECURSOR ;
5382	18486		0.97	2.0E-76	AF127845.1	NT	P18084 INTEGRIN BETA-5 SUBUNIT PRECURSOR ;
5700	18795	31969	5.35	2.0E-76	AB028004.1	NT	Homo sapiens chromosome 21 segment HS21C083
7643	20603	33968	0.55	2.0E-76	11421326	NT	QV3-OT0028-220300-132-b11 OT0028 Homo sapiens cDNA
7668	20627	33991	0.78	2.0E-76	11426608	NT	Gorilla gorilla olfactory receptor (GGO18) gene, partial cds
7924	20867	34255	1.66	2.0E-76	11427410	NT	Homo sapiens mRNA for KIAA1081 protein, partial cds
10645	23567	37064	7.03	2.0E-76	11437211	NT	Homo sapiens KIAA0783 gene product (KIAA0783), mRNA
11286	24218	37742	2.64	2.0E-76	7548807	NT	Homo sapiens A kinase (PKA) anchor protein 10 (AKAP10), mRNA
4326	17355	30241	3.37	1.0E-76	D63874.1	NT	Homo sapiens TPCR86 protein (HSTPCR86P), mRNA
4326	17355	30242	3.37	1.0E-76	D63874.1	NT	Homo sapiens similar to ribosomal protein S28 (H. sapiens) (LOC63150), mRNA
5523	18622	31557	5.74	1.0E-76	BE796537.1	EST_HUMAN	Homo sapiens HIRA interacting protein 4 (dnal-like) (HIRAP4), mRNA
6372	19440		0.64	1.0E-76	AA333207.1	EST_HUMAN	Human mRNA for HMG-1, complete cds
7109	20043	33345	4.09	9.0E-77	BE889525.1	EST_HUMAN	601589896F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3944302 5'
12923	25409		1.36	9.0E-77	BE410354.1	EST_HUMAN	ES T37301 Embryo, 8 week I Homo sapiens cDNA 5' end
189	13289	26215	1.35	8.0E-77	R83144.1	EST_HUMAN	601512435F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3913737 5'
4550	17573	30463	1.25	8.0E-77	BF205181.1	EST_HUMAN	601302333F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3638753 5'
5528	18627	31563	1.83	8.0E-77	4506230	NT	yp11h02.r1 Soares breast 3NBHst Homo sapiens cDNA clone IMAGE:187155 5' similar to
11716	24678	38257	1.82	8.0E-77	AA019770.1	EST_HUMAN	SP:ANKB_HUMAN Q01484 ANKYRIN, BRAIN VARIANT 1 ;
11716	24679	38258	1.82	8.0E-77	AA019770.1	EST_HUMAN	601869926F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4109603 5'
12900	25484	31732	4.66	8.0E-77	R00245.1	EST_HUMAN	Homo sapiens proteasome (prosome, macropain) 26S subunit, non-ATPase, 7 (Mov34 homolog) (PSMD7) mRNA
1946	14970	27958	2.43	7.0E-77	AA625755.1	EST_HUMAN	zs62e02.r1 Soares retina N2b4HR Homo sapiens cDNA clone IMAGE:363578 5'
2421	15428	28451	1.88	7.0E-77	4505944	NT	zs62e02.r1 Soares retina N2b4HR Homo sapiens cDNA clone IMAGE:363578 5'
2421	15428	28452	1.88	7.0E-77	4505944	NT	ye69f04.s1 Soares fetal liver spleen 1N1FLS Homo sapiens cDNA clone IMAGE:123007 3' similar to contains
							MER10 repetitive element ;
							zuo1g01.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:745392 3'
							Homo sapiens polymerase (RNA) II (DNA directed) polypeptide E (25kD) (POLR2E) mRNA
							Homo sapiens polymerase (RNA) II (DNA directed) polypeptide E (25kD) (POLR2E) mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
262	13358	26283	4.64	6.0E-77	4504600	NT	Homo sapiens Interferon (alpha, beta and omega) receptor 2 (IFNAR2) mRNA
1144	14187	27138	20.18	6.0E-77	AW957763.1	EST_HUMAN	EST368823 IMAGE resequences, IMAGE Homo sapiens cDNA
1545	14578	27551	3.97	6.0E-77	A1204066.1	EST_HUMAN	qcr7h12.x1 Soares_fetal_lung_NbHL19W Homo sapiens cDNA clone IMAGE:1745063 3'
1240	14276	27236	2.34	5.0E-77	AF041015.1	NT	7 Homo sapiens glucokinase (GCK) gene, exon 2
1382	14398	27367	1.41	5.0E-77	4557250	NT	Homo sapiens disintegrin and metalloprotease domain 10 (ADAM10) mRNA
2665	15691	28709	1.03	5.0E-77	AF162666.1	NT	Homo sapiens tousel-like kinase 1 (TLK1) mRNA, complete cds
2774	15766	28786	0.96	5.0E-77	4503160	NT	Homo sapiens cullin 1 (CUL1) mRNA
3834	16580	29504	0.84	5.0E-77	8394518	NT	Homo sapiens ubiquitin specific protease 18 (USP18), mRNA
4732	17752	30644	0.92	5.0E-77	5031660	NT	Homo sapiens EGF-like repeats and discoidin I-like domains 3 (EDIL3), mRNA
4732	17752	30645	0.92	5.0E-77	5031660	NT	Homo sapiens EGF-like repeats and discoidin I-like domains 3 (EDIL3), mRNA
4875	17980	30880	3.64	5.0E-77	AL043953.1	EST_HUMAN	DKFZp434G1728_r1 434 (synonym: ltes3) Homo sapiens cDNA clone DKFZp434G1728 5'
6951	20175	33499	0.84	5.0E-77	M13975.1	NT	Homo sapiens protein kinase C beta-II type (PRKCB1) mRNA, complete cds
7548	20511	33869	0.52	5.0E-77	X98296.1	NT	H. sapiens mRNA for ubiquitin hydrolase
7849	20511	33869	0.67	5.0E-77	X98296.1	NT	H. sapiens mRNA for ubiquitin hydrolase
8711	21679	35104	1.22	5.0E-77	11428849	NT	Homo sapiens 3-hydroxyisobutyryl-Coenzyme A hydrolase (HIBCH), mRNA
8711	21679	35105	1.22	5.0E-77	11428849	NT	Homo sapiens 3-hydroxyisobutyryl-Coenzyme A hydrolase (HIBCH), mRNA
9928	22811	36284	3	5.0E-77	11421928	NT	Homo sapiens sorting nexin 5 (SNX5), mRNA
9928	22811	36285	3	5.0E-77	11421928	NT	Homo sapiens sorting nexin 5 (SNX5), mRNA
10857	23777	37276	0.82	5.0E-77	AB002297.1	NT	Human mRNA for KIAA0289 gene, partial cds
10857	23777	37277	0.82	5.0E-77	AB002297.1	NT	Human mRNA for KIAA0289 gene, partial cds
1989	15010	28015	1.26	3.0E-77	5730038	NT	Homo sapiens SET domain and mariner transposase fusion gene (SETMAR) mRNA
1989	15010	28016	1.26	3.0E-77	5730038	NT	Homo sapiens SET domain and mariner transposase fusion gene (SETMAR) mRNA
10652	23574	37069	0.71	3.0E-77	H65167.1	EST_HUMAN	yu64g01.r1 Weizmann Olfactory Epithelium Homo sapiens cDNA clone IMAGE:238608 5' similar to SP:S17447 S17447 PROBABLE LIGAND-BINDING PROTEIN RY2G5 - ;
10652	23574	37070	0.71	3.0E-77	H65167.1	EST_HUMAN	yu64g01.r1 Weizmann Olfactory Epithelium Homo sapiens cDNA clone IMAGE:238608 5' similar to SP:S17447 S17447 PROBABLE LIGAND-BINDING PROTEIN RY2G5 - ;
10988	23898	37399	0.66	3.0E-77	A1017333.1	EST_HUMAN	ov31h07.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1638973 3'
10988	23898	37400	0.66	3.0E-77	A1017333.1	EST_HUMAN	ov31h07.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1638973 3'
11222	24175	37701	3.68	3.0E-77	BF359917.1	EST_HUMAN	PM3-MT0078-080900-005-g03 MT0078 Homo sapiens cDNA
1354	14389	27358	1.66	2.0E-77	AV764617.1	EST_HUMAN	AV764617 MDS Homo sapiens cDNA clone MDSBT10 5'
1428	14462	27439	2.31	2.0E-77	AW997712.1	EST_HUMAN	RC3-BN0053-170200-011-101 BN0053 Homo sapiens cDNA
2102	15119	28140	1.01	2.0E-77	L41825.1	NT	Homo sapiens CYP17 gene, 5' end
2113	15130	28150	2.46	2.0E-77	7706315	NT	Homo sapiens CGI-79 protein (LOC51834), mRNA
2600	15898	28620	2.28	2.0E-77	AB037836.1	NT	Homo sapiens mRNA for KIAA1415 protein, partial cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2600	15898	28621	2.28	2.0E-77	AB037836.1	NT	Homo sapiens mRNA for KIAA1415 protein, partial cds
4084	17100	29992	1.25	2.0E-77	BE044316.1	EST_HUMAN	h043b05.x1 Soares, NFL_T, GBC_S1 Homo sapiens cDNA clone IMAGE:3040113 3' similar to SW:GAG2_HUMAN P10284 RETROVIRUS-RELATED GAG POLYPROTEIN ;
4442	17468	30357	0.68	2.0E-77	AB113519.1	EST_HUMAN	hw22g02.x1 NCL_CGAP_Brn52 Homo sapiens cDNA clone IMAGE:2260466 3' similar to TR:O65245
4442	17468	30358	0.68	2.0E-77	AB113519.1	EST_HUMAN	hw22g02.x1 NCL_CGAP_Brn52 Homo sapiens cDNA clone IMAGE:2260466 3' similar to TR:O65245
4802	17819	30713	2.32	2.0E-77	AA653025.1	EST_HUMAN	ns68g12.s1 NCL_CGAP_Pr2 Homo sapiens cDNA clone IMAGE:1188838 similar to SW:RL29_HUMAN P47914 60S RIBOSOMAL PROTEIN L29. [1] :contains element MSR1 repetitive element ;
5158	17468	30357	0.65	2.0E-77	AB113519.1	EST_HUMAN	hw22g02.x1 NCL_CGAP_Brn52 Homo sapiens cDNA clone IMAGE:2260466 3' similar to TR:O65245
5158	17468	30358	0.65	2.0E-77	AB113519.1	EST_HUMAN	hw22g02.x1 NCL_CGAP_Brn52 Homo sapiens cDNA clone IMAGE:2260466 3' similar to TR:O65245
6085	19148	32358	2.06	2.0E-77	BE298940.1	EST_HUMAN	601119852F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3029438 5'
6296	19368	32607	1.62	2.0E-77	BE787143.1	EST_HUMAN	601478602F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3879505 5'
7390	20350	33701	14.21	2.0E-77	AB833003.1	EST_HUMAN	at74a09.x1 Barstead colon HPLR87 Homo sapiens cDNA clone IMAGE:2377720 3' similar to TR:Q13311 Q13311 TAX1-BINDING PROTEIN TXBP151. [1] ;
8874	21841	35264	0.75	2.0E-77	AB62707.1	EST_HUMAN	qy70c09.x1 NCL_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2017360 3' similar to WP:F28D11.1 CE05765 LOW DENSITY LIPID RECEPTOR-RELATED PROTEIN ;
9886	22839	36295	5.84	2.0E-77	U50321.1	NT	Human protein kinase C substrate 80K-H (PRKCSH) gene, exon 7
9886	22839	36296	5.84	2.0E-77	U50321.1	NT	Human protein kinase C substrate 80K-H (PRKCSH) gene, exon 7
10354	23278	36753	0.5	2.0E-77	BF310349.1	EST_HUMAN	601895183F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4124541 5'
10354	23278	36754	0.5	2.0E-77	BF310349.1	EST_HUMAN	601895183F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4124541 5'
45	13165	26068	0.94	1.0E-77	AB033102.1	NT	Homo sapiens mRNA for KIAA1276 protein, partial cds
45	13165	26069	0.94	1.0E-77	AB033102.1	NT	Homo sapiens mRNA for KIAA1276 protein, partial cds
272	13368	26284	1.33	1.0E-77	4502166	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
272	13368	26295	1.33	1.0E-77	4502166	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
876	15853	26891	2.31	1.0E-77	4502166	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
876	15853	26892	2.31	1.0E-77	4502166	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA

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Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2450	15455	28477	1.73	1.0E-77	AB029024.1	NT	Homo sapiens mRNA for KIAA1101 protein, complete cds
3058	16115	29028	2.01	1.0E-77	4503300	NT	Homo sapiens 2,4-dienoyl CoA reductase 1, mitochondrial (DEOR1), mRNA
4380	17408	30289	3.92	1.0E-77	7706299	NT	Homo sapiens CGI-60 protein (LOC51626), mRNA
4525	17550	30438	0.73	1.0E-77	4758053	NT	Homo sapiens cAMP responsive element binding protein 1 (CREB1) mRNA
4552	17575	30465	16.98	1.0E-77	AJ229041.1	NT	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22; segment 1/3
4680	17701	30589	2.11	1.0E-77	6552322	NT	Homo sapiens breast cancer 1, early onset (BRCA1), transcript variant BRCA1-exon4, mRNA
4721	17741	30632	0.72	1.0E-77	AJ273014.1	EST_HUMAN	q08g04.x1 NCJ_CGAP_Kid8 Homo sapiens cDNA clone IMAGE:1981110 3'
5000	17550	30438	0.95	1.0E-77	4758053	NT	Homo sapiens cAMP responsive element binding protein 1 (CREB1) mRNA
5219	17550	30438	0.68	1.0E-77	4758053	NT	Homo sapiens cAMP responsive element binding protein 1 (CREB1) mRNA
5246	18254		1.12	1.0E-77	AL163247.2	NT	Homo sapiens chromosome 21 segment HS21C047
6038	19120	32324	1.61	1.0E-77	AF086944.1	NT	Homo sapiens dynactin 1 (DCTN1) gene, exons 27 and 28
6038	19120	32325	1.61	1.0E-77	AF086944.1	NT	Homo sapiens dynactin 1 (DCTN1) gene, exons 27 and 28
6165	19240	32471	1.39	1.0E-77	M25844.1	NT	Human von Willebrand factor gene, exon 20
6580	19650	32921	1.26	1.0E-77	4885182	NT	Homo sapiens diaphanous (Drosophila, homolog) 1 (DIAPH1), mRNA
7254	19889	33286	14.51	1.0E-77	5881412	NT	Homo sapiens elastin (supraaortic aortic stenosis, Williams-Beuren syndrome) (ELN), mRNA
7928	20871	34260	0.91	1.0E-77	11420159	NT	Homo sapiens cullin 1 (CUL1), mRNA
8040	20977	34373	0.69	1.0E-77	X04571.1	NT	Human mRNA for kidney epidermal growth factor (EGF) precursor
9620	22564	36013	0.65	1.0E-77	X94354.1	NT	H. sapiens DNA for Cone cGMP-PDE gene
9620	22564	36014	0.65	1.0E-77	X94354.1	NT	H. sapiens DNA for Cone cGMP-PDE gene
10890	23810	37316	0.82	1.0E-77	AB028396.1	NT	Homo sapiens hu-GlcAT-P mRNA for glucuronyltransferase, complete cds
10890	23810	37317	0.92	1.0E-77	AB028396.1	NT	Homo sapiens hu-GlcAT-P mRNA for glucuronyltransferase, complete cds
10916	23836	37352	3	9.0E-78	AW753302.1	EST_HUMAN	RC3-CT0254-280989-011-005 CT0254 Homo sapiens cDNA
6589	19649	32919	2.93	8.0E-78	AW947061.1	EST_HUMAN	RC2-ET0023-080500-012-405 ET0023 Homo sapiens cDNA
6589	19649	32920	2.93	8.0E-78	AW947061.1	EST_HUMAN	RC2-ET0023-080500-012-405 ET0023 Homo sapiens cDNA
86	13202	26126	2.14	6.0E-78	AU118789	EST_HUMAN	AU118789 HEMBA1 Homo sapiens cDNA clone HEMBA1004354 5'
86	13202	26127	2.14	6.0E-78	AU118789	EST_HUMAN	AU118789 HEMBA1 Homo sapiens cDNA clone HEMBA1004354 5'
3325	16378	29297	8.56	6.0E-78	BF344101.1	EST_HUMAN	602016926F1 NCJ_CGAP_Brn64 Homo sapiens cDNA clone IMAGE:4152511 5'
6712	19768		2.34	6.0E-78	11432710	NT	Homo sapiens GDNF family receptor alpha 1 (GFRAL1), mRNA
219	13319	26244	1.79	5.0E-78	11422486	NT	Homo sapiens hypothetical protein FLJ11316 (FLJ11316), mRNA
2569	15570	28590	5.46	5.0E-78	AW673424.1	EST_HUMAN	ba54h03.y3 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2900405 5' similar to WP.Y48B6A.6 CE22121 ;
3396	16445	29372	3.94	5.0E-78	M55586.1	NT	Human collagenase type IV (CLG4) gene, exon 6
5486	18586	31497	2.45	5.0E-78	AF038536.1	NT	Homo sapiens Best's macular dystrophy related protein mRNA, partial cds
5655	18751	31917	24.78	5.0E-78	11416585	NT	Homo sapiens transforming growth factor, beta-induced, 68kD (TGFB1), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7361	20331	33881	2.22	5.0E-78	AW953120.1	EST_HUMAN	EST365190 IMAGE resequences, MAGB Homo sapiens cDNA
9438	22402	35840	6.85	5.0E-78	U60889.1	NT	Human lysosomal alpha-mannosidase (manB) gene, exon 7
9439	22403	35841	3.51	5.0E-78	BE960836.1	EST_HUMAN	601648061F1 NIH_MGC_62 Homo sapiens cDNA clone IMAGE:3931887 5'
11614	24552	38112	1.64	5.0E-78	BE241639.1	EST_HUMAN	TCAAAP1E0688 Pediatric acute myelogenous leukemia cell (FAB M1) Baylor-HGSC project=TCAA Homo sapiens cDNA clone TCAAAP0688
11614	24552	38113	1.64	5.0E-78	BE241639.1	EST_HUMAN	TCAAAP1E0688 Pediatric acute myelogenous leukemia cell (FAB M1) Baylor-HGSC project=TCAA Homo sapiens cDNA clone TCAAAP0688
1139	14182	27133	1.86	4.0E-78	AL043314.2	EST_HUMAN	DKFZP434N0323_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434N0323 5'
1521	14553	27524	2.74	4.0E-78	AL355841.1	NT	Novel human gene mapping to chromosome 22
1656	14688	27663	1.11	4.0E-78	AI985094.1	EST_HUMAN	046555 WHEY ACIDIC PROTEIN PRECURSOR ;
2328	19337	28360	3.31	4.0E-78	AF107405.1	NT	Homo sapiens pre-mRNA splicing factor (SFRS3) mRNA, complete cds
4350	17377	30256	1.47	4.0E-78	7656876	NT	Homo sapiens syncytin (LOC30816), mRNA
4807	17824	30719	2.16	4.0E-78	4505806	NT	Homo sapiens phosphatidylinositol 4-kinase, catalytic, alpha polypeptide (PIK4CA) mRNA
4807	17824	30720	2.16	4.0E-78	4505806	NT	Homo sapiens phosphatidylinositol 4-kinase, catalytic, alpha polypeptide (PIK4CA) mRNA
5862	19951	32137	1.13	4.0E-78	11420732	NT	Homo sapiens SFRS protein kinase 2 (SRPK2), mRNA
6297	19369	32608	0.61	4.0E-78	7662109	NT	Homo sapiens KIAA0428 gene product (KIAA0428), mRNA
6297	19369	32609	0.61	4.0E-78	7662109	NT	Homo sapiens KIAA0428 gene product (KIAA0428), mRNA
6725	19781	33060	0.59	4.0E-78	4508736	NT	Homo sapiens ribosomal protein S6 kinase, 70kD, polypeptide 1 (RPS6KB1) mRNA
7733	20688	34052	0.58	4.0E-78	4508736	NT	Homo sapiens ribosomal protein S6 kinase, 70kD, polypeptide 1 (RPS6KB1) mRNA
9205	22171	35601	1.66	4.0E-78	AF012872.1	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (p4K230) mRNA, complete cds
9205	22171	35602	1.66	4.0E-78	AF012872.1	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (p4K230) mRNA, complete cds
9723	22761	36204	0.64	4.0E-78	11417251	NT	Homo sapiens X-ray repair complementing defective repair in Chinese hamster cells 4 (XRCC4), mRNA
10811	23732	37233	1.97	4.0E-78	11560151	NT	Homo sapiens hypothetical C2H2 zinc finger protein FLJ22504 (FLJ22504), mRNA
10811	23732	37234	1.97	4.0E-78	11560151	NT	Homo sapiens hypothetical C2H2 zinc finger protein FLJ22504 (FLJ22504), mRNA
11749	24634	38213	1.65	4.0E-78	AF169148.1	NT	Homo sapiens e-Cadherin (E-CADHERIN) mRNA, complete cds
11883	24764	38350	5.69	4.0E-78	X05844.1	NT	Human transforming growth factor-beta precursor gene exons 4-5 (and joined mature peptide)
12126	24995	38599	2.38	4.0E-78	11024711	NT	Homo sapiens myosin, heavy polypeptide 4, skeletal muscle (MYH4), mRNA
12797	25426	37139	3.89	4.0E-78	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
162	13265	26189	2.77	3.0E-78	AF095901.1	NT	Homo sapiens eRF1 gene, complete cds
162	13265	26190	2.77	3.0E-78	AF095901.1	NT	Homo sapiens eRF1 gene, complete cds
3776	16818	29171	0.94	3.0E-78	AF140604.1	EST_HUMAN	AU140604 PLACE3 Homo sapiens cDNA clone PLACE3000373 5'
3829	16869	29771	0.68	3.0E-78	4507334	NT	Homo sapiens synaptobrevin 1 (SYNJ1), mRNA

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4131	16868	29771	0.79	3.0E-78	4507334	NT	Homo sapiens synapjanin 1 (SYNJ1), mRNA
10649	23571		5.79	3.0E-78	BE144758.1	EST_HUMAN	CMO-HT0180-04T099-065-c07 HT0180 Homo sapiens cDNA
11328	24276	37804	1.8	3.0E-78	BE156318.1	EST_HUMAN	QVO-HT0367-150200-114-909 HT0367 Homo sapiens cDNA
3138	16195		4.1	2.0E-78	U04489.1	NT	Homo sapiens type IV collagen alpha 5 chain (COL4A5) gene, exon 20
4042	17080		1.43	2.0E-78	AA311872.1	EST_HUMAN	EST182583 Jurkat T-cells VI Homo sapiens cDNA 5' end
7705	20662	34027	1.24	2.0E-78	AW402306.1	EST_HUMAN	UI-HF-BKO-aa1-g-10-Q-UJ1 NIH_MGC_36 Homo sapiens cDNA clone IMAGE:3054139 5'
7705	20662	34028	1.24	2.0E-78	AW402306.1	EST_HUMAN	UI-HF-BKO-aa1-g-10-Q-UJ1 NIH_MGC_36 Homo sapiens cDNA clone IMAGE:3054139 5'
8003	20942	34335	3.2	2.0E-78	BF689800.1	EST_HUMAN	602186529F1 NIH_MGC_49 Homo sapiens cDNA clone IMAGE:4298599 5'
8375	21344	34755	2.54	2.0E-78	AV714177.1	EST_HUMAN	AV714177 DCB Homo sapiens cDNA clone DGBAWF09 5'
8795	21762	35183	1.51	2.0E-78	AI557509.1	EST_HUMAN	P2.1_16 B07.1 tumor2 Homo sapiens cDNA 3'
8795	21762	35184	1.51	2.0E-78	AI557509.1	EST_HUMAN	P2.1_16 B07.1 tumor2 Homo sapiens cDNA 3'
11416	24360	37895	2.5	2.0E-78	AI197837.1	EST_HUMAN	q150h05.x1 NCI CGAP Bm25 Homo sapiens cDNA clone IMAGE:1859961 3' similar to WP.R90.1
11458	24401	37949	2.03	2.0E-78	N66951.1	EST_HUMAN	CE06325 PROTEIN KINASE ;
5378	18482	31357	3.22	1.0E-78	11417304	NT	Homo sapiens GAP-like protein (LOC51306), mRNA
7144	18378	31264	0.67	1.0E-78	AV648699.1	EST_HUMAN	AV648699 GIC Homo sapiens cDNA clone GLOBM001 3'
8499	21487		2.95	1.0E-78	U52373.1	NT	Human serine/threonine kinase MNB (mnb) mRNA, complete cds
12323	25125	31847	1.81	1.0E-78	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
4727	17747	30638	3.81	9.0E-79	11525891	NT	Homo sapiens peptide YY (PYY), mRNA
4899	17916	30807	3.55	9.0E-79	BE000837.1	EST_HUMAN	RC2-BND074-090300-014-c12 BN0074 Homo sapiens cDNA
5507	18607	31537	16.13	9.0E-79	AB028070.1	NT	Homo sapiens mRNA for activator of S phase Kinase, complete cds
6474	19539	32785	2.49	9.0E-79	5454145	NT	Homo sapiens ubiquitin-conjugating enzyme E2E 3 (homologous to yeast UBC4/5) (UBE2E3) mRNA
6772	19827	33109	0.87	9.0E-79	11430822	NT	Homo sapiens hypothetical protein FLJ11294 (FLJ11294), mRNA
7573	25684		1.05	9.0E-79	11424427	NT	Homo sapiens hypothetical protein FLJ20345 (FLJ20345), mRNA
7825	20773	34150	0.84	9.0E-79	11421735	NT	Homo sapiens cAMP response element-binding protein CRE-BPa (H_GS165L15.1), mRNA
7825	20773	34151	0.84	9.0E-79	11421735	NT	Homo sapiens cAMP response element-binding protein CRE-BPa (H_GS165L15.1), mRNA
7875	20819	34197	0.55	9.0E-79	D30858.1	NT	Human T-cell mRNA for glycyl RNA synthetase, complete cds
8689	21657	35079	0.5	9.0E-79	11417260	NT	Homo sapiens threonyl-tRNA synthetase (TARS), mRNA
8689	21657	35080	0.5	9.0E-79	11417260	NT	Homo sapiens threonyl-tRNA synthetase (TARS), mRNA
9418	22383	35821	5.53	9.0E-79	J02853.1	NT	Homo sapiens casein kinase II alpha subunit mRNA, complete cds
9418	22383	35822	5.53	9.0E-79	J02853.1	NT	Homo sapiens casein kinase II alpha subunit mRNA, complete cds
9735	22763	36218	0.86	9.0E-79	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
10730	23652	37145	0.85	9.0E-79	11438843	NT	Homo sapiens hypothetical protein FLJ20535 (FLJ20535), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10784	23705	37204	1.53	9.0E-79	AF062346.1	NT	Homo sapiens zinc finger protein 216 splice variant 1 (ZNF216) mRNA, complete cds
10784	23705	37205	1.53	9.0E-79	AF062346.1	NT	Homo sapiens zinc finger protein 216 splice variant 1 (ZNF216) mRNA, complete cds
11406	24350	37882	4.27	9.0E-79	AY008273.1	NT	Homo sapiens TRAF6-regulated IKK activator 1 beta Uev1A mRNA, complete cds
11841	24724	38310	2.97	9.0E-79	11423827	NT	Homo sapiens suppressor of white apricot homolog 2 (SWAP2), mRNA
11841	24724	38311	2.97	9.0E-79	11423827	NT	Homo sapiens suppressor of white apricot homolog 2 (SWAP2), mRNA
12115	24985	38586	2.71	9.0E-79	7682451	NT	Homo sapiens KIAA1035 protein (KIAA1035), mRNA
13000	25556	31720	1.55	9.0E-79	11417877	NT	Homo sapiens gamma-glutamyltransferase 1 (GGT1), mRNA
3755	16797	29708	1.33	8.0E-79	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
5195	18204	31078	0.68	8.0E-79	8567387	NT	Homo sapiens period (Drosophila) homolog 3 (PER3), mRNA
3266	16320	29242	7.24	7.0E-79	BE619648.1	EST_HUMAN	601472766T1 NIH_MGC_88 Homo sapiens cDNA clone IMAGE:3875857 3'
12170	25020		2.63	6.0E-79	AA699828.1	EST_HUMAN	Z94e04.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:462558 3' similar to
11824	24707	38290	4.57	5.0E-79	AL163282.2	NT	TR-Q15408 Q15408 NEUTRAL PROTEASE LARGE SUBUNIT ;
3191	16248		1.35	4.0E-79	8922325	NT	Homo sapiens chromosome 21 segment HS21C082
313	13405	26331	1.46	3.0E-79	AF114488.1	NT	Homo sapiens hypothetical protein FLJ10283 (FLJ10283), mRNA
979	14030	26984	2.02	3.0E-79	AF232708.1	NT	Homo sapiens intersectin short isoform (ITSN) mRNA, complete cds
3115	16172	29082	1.82	3.0E-79	U09410.1	NT	Homo sapiens cell-line tsA201a chloride ion current inducer protein (Cln) gene, complete cds
5435	18537	31445	6.05	3.0E-79	AF110322.1	NT	Human zinc finger protein ZNF131 mRNA, partial cds
5812	18902	32085	1.61	3.0E-79	AB020699.1	NT	Homo sapiens MSTP016 (MST016) mRNA, complete cds
5841	18931	32115	0.95	3.0E-79	BE789470.1	EST_HUMAN	Homo sapiens mRNA for KIAA0892 protein, partial cds
5841	18931	32116	0.95	3.0E-79	BE789470.1	EST_HUMAN	601482143F1 NIH_MGC_88 Homo sapiens cDNA clone IMAGE:3884554 5'
5863	18952	32138	4.05	3.0E-79	11426770	NT	601482143F1 NIH_MGC_88 Homo sapiens cDNA clone IMAGE:3884554 5'
5863	18952	32139	4.05	3.0E-79	11426770	NT	Homo sapiens netrin 1 (NTN1), mRNA
6909	19981	33257	0.8	3.0E-79	BE256893.1	EST_HUMAN	Homo sapiens netrin 1 (NTN1), mRNA
7262	19997	33294	3.31	3.0E-79	AB014520.1	NT	601112055F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352885 5'
7262	19997	33295	3.31	3.0E-79	AB014520.1	NT	Homo sapiens mRNA for KIAA0820 protein, partial cds
8504	21472	34888	1.58	3.0E-79	AF24927.1	NT	Homo sapiens mRNA for KIAA0820 protein, partial cds
9758	22699	36156	0.57	3.0E-79	10835036	NT	Homo sapiens Bcl-2-associated transcription factor short form mRNA, complete cds
10712	23634		0.64	3.0E-79	AV698115.1	EST_HUMAN	Homo sapiens tetrapeptide repeat domain 3 (TTC3), mRNA
287	13382		2.05	2.0E-79	H63129.1	EST_HUMAN	AV698115 GKCHomo sapiens cDNA clone GKCAHE11 5'
635	13701	26622	1.29	2.0E-79	BE379926.1	EST_HUMAN	y48f03.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:208541 3'
928	13981	26935	1.35	2.0E-79	4757841	NT	601159415F2 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3511107 5'
985	14036	26990	4.78	2.0E-79	4895234	NT	Homo sapiens BCL2-like 2 (BCL2L2) mRNA
985	14036	26991	4.78	2.0E-79	4895234	NT	Homo sapiens Gardner-Rasheed feline sarcoma viral (v-fgr) oncogene homolog (FGR) mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1036	14082		1.02	2.0E-79	AI523747.1	EST_HUMAN	h18h07.x1 NCJ_CGAP_Pr28 Homo sapiens cDNA clone IMAGE:2118685 3'
1804	14832	27819	0.97	2.0E-79	7657024	NT	Homo sapiens Dickkopf gene 4 (DKK-4), mRNA
1804	14832	27820	0.97	2.0E-79	7657024	NT	Homo sapiens Dickkopf gene 4 (DKK-4), mRNA
1893	14918	27914	0.92	2.0E-79	7662255	NT	Homo sapiens KIAA0703 gene product (KIAA0703), mRNA
2158	15174	28193	4.97	2.0E-79	4585863	NT	Homo sapiens phosphodiesterase 6A, cGMP-specific, rod, alpha (PDE6A), mRNA
2158	15174	28194	4.97	2.0E-79	4585863	NT	Homo sapiens phosphodiesterase 6A, cGMP-specific, rod, alpha (PDE6A), mRNA
2202	15217	28237	0.91	2.0E-79	AJ271408.1	NT	Homo sapiens mRNA for Fas-associated factor, FAF1 (Faf1 gene)
3933	16973	29887	0.83	2.0E-79	AF170492.1	NT	Homo sapiens chloride channel CLC4 (CLC4) mRNA, complete cds
4193	17224	30113	1.15	2.0E-79	AJ271408.1	NT	Homo sapiens mRNA for Fas-associated factor, FAF1 (Faf1 gene)
4716	17736	30628	0.97	2.0E-79	AL163206.2	NT	Homo sapiens chromosome 21 segment HS21C008
5754	18848		1.25	2.0E-79	AA312223.1	EST_HUMAN	EST182926 Jurkat T-cells VI Homo sapiens cDNA 5' end similar to C. elegans hypothetical protein, cosmid B0303.15
5815	18905	32088	0.88	2.0E-79	11181769	NT	Homo sapiens X transporter protein 3 (XT3), mRNA
6371	19439	32682	1.07	2.0E-79	AB020637.1	NT	Homo sapiens mRNA for KIAA0830 protein, partial cds
7153	18385	31273	0.7	2.0E-79	AF263613.1	NT	Homo sapiens membrane-associated calcium-independent phospholipase A2 gamma mRNA, complete cds
7373	20343	33694	1.74	2.0E-79	7382479	NT	Homo sapiens Rho GTPase activating protein 6 (ARHGAP6), transcript variant 4, mRNA
7373	20343	33695	1.74	2.0E-79	7382479	NT	Homo sapiens Rho GTPase activating protein 6 (ARHGAP6), transcript variant 4, mRNA
8437	21406	34818	1.13	2.0E-79	4508442	NT	Homo sapiens retinoblastoma-like 1 (p107) (RBL1) mRNA
8862	21829	35252	2.55	2.0E-79	11427428	NT	Homo sapiens hypothetical protein FLJ11006 (FLJ11006), mRNA
9118	22084	35512	0.46	2.0E-79	8923248	NT	Homo sapiens hypothetical protein FLJ20275 (FLJ20275), mRNA
9118	22084	35513	0.46	2.0E-79	8923248	NT	Homo sapiens hypothetical protein FLJ20275 (FLJ20275), mRNA
9357	22322	35749	1.1	2.0E-79	11432184	NT	Homo sapiens similar to ATPase, H+ transporting, lysosomal (vacuolar proton pump) membrane sector associated protein M8-9 (H. sapiens) (LOC63961), mRNA
10452	23374	36885	3.12	2.0E-79	S72869.1	NT	H4(D10S170)=putative cytoskeletal protein [human, thyroid, mRNA, 3011 nt]
10452	23374	36886	3.12	2.0E-79	S72869.1	NT	H4(D10S170)=putative cytoskeletal protein [human, thyroid, mRNA, 3011 nt]
11368	24315	37840	3.86	2.0E-79	BE064386.1	EST_HUMAN	RC4-BT0310-110300-015-f10 BT0310 Homo sapiens cDNA
11368	24315	37841	3.86	2.0E-79	BE064386.1	EST_HUMAN	RC4-BT0310-110300-015-f10 BT0310 Homo sapiens cDNA
11668	24602		2.62	2.0E-79	AB036532.1	NT	Homo sapiens p53R2 gene for ribonucleotide reductase, exon 9 and complete cds
12207	18350	31295	3.21	2.0E-79	7662357	NT	Homo sapiens KIAA0879 protein (KIAA0879), mRNA
12293	25107	31837	4.8	2.0E-79	AB020640.1	NT	Homo sapiens mRNA for KIAA0833 protein, partial cds
12524	25254	31804	2.41	2.0E-79	11418322	NT	Homo sapiens cadherin EGF LAG seven-pass G-type receptor 1 (GELSRT1), mRNA
6739	25666		3.26	1.0E-79	BF363071.1	EST_HUMAN	MRO-NIN0087-260600-017-b10 NIN0087 Homo sapiens cDNA

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6852	19905	33200	0.51	1.0E-79	A1613480.1	EST_HUMAN	U37608.x1 NCL CGAP_U12 Homo sapiens cDNA clone IMAGE:2281288 3' similar to TR:Q26623 Q26623 TEKTIN C1.
6852	19905	33201	0.51	1.0E-79	A1613480.1	EST_HUMAN	U37608.x1 NCL CGAP_U12 Homo sapiens cDNA clone IMAGE:2281288 3' similar to TR:Q26623 Q26623 TEKTIN C1.
8587	21555	34971	0.73	1.0E-79	BE394211.1	EST_HUMAN	601311517F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3832909 5'
11944	24824	38419	2.64	1.0E-79	BF087405.1	EST_HUMAN	QV2-HT0540-120800-358-a05 HT0540 Homo sapiens cDNA
3161	16217	29131	6.25	9.0E-80	AA725848.1	EST_HUMAN	al23e05.s1 Soares_testis_NHT Homo sapiens cDNA clone 1343848 3'
3161	16217	29132	6.25	9.0E-80	AA725848.1	EST_HUMAN	al23e05.s1 Soares_testis_NHT Homo sapiens cDNA clone 1343848 3'
10373	23298	36772	1.02	9.0E-80	BE798603.1	EST_HUMAN	601561662F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3936061 5'
11606	24544	38104	8.28	9.0E-80	11433924	NT	Homo sapiens solute carrier family 7 (cationic amino acid transporter, y ⁺ system), member 8 (SLC7A8), mRNA
11608	24544	38105	8.28	9.0E-80	11433924	NT	Homo sapiens solute carrier family 7 (cationic amino acid transporter, y ⁺ system), member 8 (SLC7A8), mRNA
3616	16660		1.22	8.0E-80	U94387.1	NT	Homo sapiens Y chromosome spermatogenesis candidate protein (RBM) pseudogene mRNA, partial cds
7862	20806	34183	2.95	8.0E-80	11422847	NT	Homo sapiens KIAA0724 gene product (KIAA0724), mRNA
7862	20806	34184	2.95	8.0E-80	11422847	NT	Homo sapiens KIAA0724 gene product (KIAA0724), mRNA
9757	22698	38154	1.14	8.0E-80	6005921	NT	Homo sapiens triple functional domain (PTPRF interacting) (TRIO), mRNA
9757	22698	38155	1.14	8.0E-80	6005921	NT	Homo sapiens triple functional domain (PTPRF interacting) (TRIO), mRNA
7166	18397	31242	0.58	7.0E-80	AF127882.1	NT	Callithrix jacchus olfactory receptor (CJA80) gene, partial cds
901	13956	26913	0.7	6.0E-80	AI422197.1	EST_HUMAN	U58d02.x1 NCL CGAP_Bm23 Homo sapiens cDNA clone IMAGE:2103459 3' similar to SW:NUEM_HUMAN Q18795 NADH-UBIQUINONE OXIDOREDUCTASE 39 KD SUBUNIT PRECURSOR ;
1650	14682	27655	2.17	6.0E-80	U64898.1	NT	Homo sapiens NRD convertase mRNA, complete cds
2307	15319	28338	1.17	6.0E-80	6631094	NT	Homo sapiens minichromosome maintenance deficient (S. cerevisiae) 3 (MCM3), mRNA
2307	15319	28339	1.17	6.0E-80	6631094	NT	Homo sapiens minichromosome maintenance deficient (S. cerevisiae) 3 (MCM3), mRNA
4314	17343	30225	1.1	6.0E-80	AB032981.1	NT	Homo sapiens mRNA for KIAA1155 protein, partial cds
4314	17343	30226	1.1	6.0E-80	AB032981.1	NT	Homo sapiens mRNA for KIAA1155 protein, partial cds
5899	18988	32177	1.32	6.0E-80	11421462	NT	Homo sapiens malate dehydrogenase 2, NAD (mitochondrial) (MDH2), mRNA
6194	19298	32503	3.12	6.0E-80	AJ404468.1	NT	Homo sapiens mRNA for dynein heavy chain (DNAH9 gene)
6355	19424	32688	3.81	6.0E-80	11436736	NT	Homo sapiens tubby like protein 3 (TULP3), mRNA
6403	19471		0.93	6.0E-80	7662393	NT	Homo sapiens KIAA0941 protein (KIAA0941), mRNA
6455	19520	32770	0.88	6.0E-80	M18533.1	NT	Homo sapiens dystrophin (DMD) mRNA, complete cds
9178	22142	35568	3.08	6.0E-80	11528484	NT	Homo sapiens G protein-coupled receptor 51 (GPR51), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9176	22142	35699	3.06	6.0E-80	11526464	NT	Homo sapiens G protein-coupled receptor 51 (GPR51), mRNA
9373	22338	35768	1.56	6.0E-80	AL163301.2	NT	Homo sapiens chromosome 21 segment HS21C101
9714	22667	36125	0.94	6.0E-80	AF161495.1	NT	Homo sapiens HSPC146 mRNA, complete cds
9841	22777	36233	0.47	6.0E-80	AJ271735.1	NT	Homo sapiens Xq pseudautosomal region; segment 1/2
10220	23145	36634	1.55	6.0E-80	U20211.1	NT	Human cone photoreceptor cGMP-phosphodiesterase alpha' subunit gene, exon 21
11289	24239	37766	2.43	6.0E-80	11427366	NT	Homo sapiens brefeldin A-inhibited guanine nucleotide-exchange protein 1 (BIG1), mRNA
11558	24498	38054	20.37	6.0E-80	AF226730.1	NT	Homo sapiens Cy19 mRNA, complete cds
12051	24924	38521	1.64	6.0E-80	AF102265.1	NT	Homo sapiens N-acetylglucosamine-phosphate mutase mRNA, complete cds
12304	25787		2.39	6.0E-80	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
12506	25243		6.41	6.0E-80	AB029900.1	NT	Homo sapiens CST gene for cerebroside sulfotransferase, exon 1, 2, 3, 4, 5
12894	25814		4.47	6.0E-80	AJ133127.1	NT	Homo sapiens mRNA for sodium-glucose cotransporter (SGLT2 gene)
590	13657	26572	2.89	5.0E-80	4506228	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, non-ATPase, 3 (PSMD3) mRNA
836	13893	26848	1.49	5.0E-80	AF108830.1	NT	Homo sapiens serine-threonine protein kinase (MNBH) mRNA, complete cds
836	13893	26849	1.49	5.0E-80	AF108830.1	NT	Homo sapiens serine-threonine protein kinase (MNBH) mRNA, complete cds
1193	14233		0.96	5.0E-80	X91647.1	NT	H. sapiens ncx1 gene (exon 12)
1450	14483		2.21	5.0E-80	AL163283.2	NT	Homo sapiens chromosome 21 segment HS21C083
2369	15377	28400	1.92	5.0E-80	U89358.1	NT	Human I(3)mbt protein homolog mRNA, complete cds
2437	15444	28482	6.37	5.0E-80	AB037855.1	NT	Homo sapiens mRNA for KIAA1434 protein, partial cds
2806	15798	28816	5	5.0E-80	4504292	NT	Homo sapiens H3 histone family, member J (H3FJ) mRNA
4069	17105	29998	1.26	5.0E-80	AB019038.1	NT	Homo sapiens HMT-1 mRNA for beta-1,4 mannosyltransferase, complete cds
4069	17105	29999	1.26	5.0E-80	AB019038.1	NT	Homo sapiens HMT-1 mRNA for beta-1,4 mannosyltransferase, complete cds
4991	18006	30834	1.53	5.0E-80	AL163268.2	NT	Homo sapiens chromosome 21 segment HS21C068
8700	21668	35091	1.14	5.0E-80	9910293	NT	Mus musculus keratin complex 2, gene 6g (Krt2-6g), mRNA
9613	22617	36069	15.19	4.0E-80	F28915.1	EST_HUMAN	HSPD13155 HM3 Homo sapiens cDNA clone s4000045F03
218	13318		9.37	3.0E-80	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
4738	17758	30653	1.45	3.0E-80	BF085009.1	EST_HUMAN	PMO-GN0018-040900-002-E03 GN0018 Homo sapiens cDNA
4945	17961		3.11	3.0E-80	BE817465.1	EST_HUMAN	QV4-BN0263-040606-241-g10 BN0263 Homo sapiens cDNA
5919	19005	32197	2.02	3.0E-80	AI091675.1	EST_HUMAN	cc23e12.x1 Soares NSF_F8_gw_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:1567054 3' similar to
1814	14841	27832	4.7	2.0E-80	R36321.1	EST_HUMAN	TR-O35790 O35790 PIG-L;
1877	14902	27802	1.49	2.0E-80	AI444821.1	EST_HUMAN	X65608.r1 Soares Infant brain 1N1B Homo sapiens cDNA clone IMAGE:38060 5'
2071	15088	28106	5.1	2.0E-80	AL043116.2	EST_HUMAN	RET4B7 subtracted retina cDNA library Homo sapiens cDNA clone RET4B7
6374	19442	32684	0.69	2.0E-80	AI923972.1	EST_HUMAN	DKFZp434D1323_r1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434D1323 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6374	19442	32685	0.69	2.0E-80	A1923972.1	EST_HUMAN	wn49c10.x1 NCI_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2448786 3'
6977	20200	33530	1.01	2.0E-80	AA562952.1	EST_HUMAN	nr80d01.s1 NCI_CGAP_Co9 Homo sapiens cDNA clone IMAGE:1090177 3'
7098	20032	33335	1.51	2.0E-80	11421930	NT	Homo sapiens Golgi transport complex protein (90 kDa) (GTC90), mRNA
7463	20429	33786	0.81	2.0E-80	T75215.1	EST_HUMAN	yc88f12.r1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:22851 5' similar to SP:K1CR_XENLA_P08802 KERATIN, TYPE I CYTOSKELETAL ENDO B ;
9514	22477	35922	1.22	2.0E-80	AW984270.1	EST_HUMAN	EST376343 MAGE resequences, MAGH Homo sapiens cDNA
10126	23052	36530	0.97	2.0E-80	AJ007379.1	NT	Homo sapiens GGT gene, exon 6
11216	24169	37697	8.05	2.0E-80	AA393362.1	EST_HUMAN	z70f12.r1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:727727 5' similar to TR:G191315
340	13429		2.11	1.0E-80	AL163303.2	NT	G191315 ANDROGEN-DEPENDENT EXPRESSED PROTEIN. ;
800	13659	26806	1.95	1.0E-80	AF231920.1	NT	Homo sapiens chromosome 21 segment HS21C103
1871	14892		2.82	1.0E-80	A1732656.1	EST_HUMAN	Homo sapiens chromosome 21 unknown mRNA
4857	17874	30782	0.78	1.0E-80	N99520.1	EST_HUMAN	nm01112.x5 NCI_CGAP_Co9 Homo sapiens cDNA clone IMAGE:1078495 3' similar to contains OFR.t1 OFR repetitive element ;
5400	18503		3.62	1.0E-80	BE36615.1	EST_HUMAN	z839g07.r1 Soares fetal liver spleen 1N1FLS Homo sapiens cDNA clone IMAGE:294972 5' similar to contains Alu repetitive element;
6083	19163	32375	6.24	1.0E-80	L10347.1	NT	601274305F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3615433 5'
6646	19704	32980	1.3	1.0E-80	5174540	NT	Human pro-alpha1 type II collagen (COL2A1) gene exons 1-54, complete cds
7414	20381	33732	1.09	1.0E-80	AJ224172.1	NT	Homo sapiens malate dehydrogenase 2, NAD (mitochondrial) (MDH2), nuclear gene encoding mitochondrial protein, mRNA
7824	20772	34148	2.6	1.0E-80	A1948731.1	EST_HUMAN	Homo sapiens mRNA for lipophilin B
7824	20772	34149	2.6	1.0E-80	A1948731.1	EST_HUMAN	wq25c05.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2472296 3'
8573	21541	34981	1.17	1.0E-80	11421211	NT	wq25c05.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2472296 3'
9048	22014	35437	0.92	1.0E-80	11421211	NT	Homo sapiens protein tyrosine phosphatase, receptor type, A (PTPRA), mRNA
9048	22014	35438	0.92	1.0E-80	11421211	NT	Homo sapiens protein tyrosine phosphatase, receptor type, A (PTPRA), mRNA
9640	22584	36032	1.26	1.0E-80	AF245219.1	NT	Homo sapiens protein tyrosine phosphatase, receptor type, A (PTPRA), mRNA
9640	22584	36033	1.26	1.0E-80	AF245219.1	NT	Homo sapiens probable mannose binding C-type lectin DC-SIGNR mRNA, complete cds
10791	23712	37214	1.12	1.0E-80	D63479.2	NT	Homo sapiens probable mannose binding C-type lectin DC-SIGNR mRNA, complete cds
11013	23978	37503	1.72	1.0E-80	11641276	NT	Homo sapiens mRNA for KIAA0145 protein, partial cds
11013	23978	37504	1.72	1.0E-80	11641276	NT	Homo sapiens similar to rat myomegalin (LOC64182), mRNA
11443	24366	37926	1.67	1.0E-80	8923939	NT	Homo sapiens similar to rat myomegalin (LOC64182), mRNA
12578	25287	31779	2.27	1.0E-80	11417901	NT	Homo sapiens myosin, heavy polypeptide 2, skeletal muscle, adult (MYH2), mRNA
11488	24431	37980	9.7	8.0E-81	BE394525.1	EST_HUMAN	Homo sapiens meningioma (disrupted in balanced translocation) 1 (MN1), mRNA
7464	20430	33787	2.97	7.0E-81	A1922115.1	EST_HUMAN	601310531F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3632070 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4414	17441	30331	4.98	6.0E-81	BE256829.1	EST_HUMAN	60111970F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352840 5'
4414	17441	30332	4.98	6.0E-81	BE256829.1	EST_HUMAN	60111970F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352840 5'
5355	18460	31328	1.65	6.0E-81	4501848	NT	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA
5355	18460	31330	1.65	6.0E-81	4501848	NT	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA
7845	20792	34168	0.56	6.0E-81	AF038660.1	NT	Homo sapiens chromosome 1p33-p34 beta-1,4-galactosyltransferase mRNA, complete cds
9592	22554	36004	1.17	6.0E-81	AA366017.1	EST_HUMAN	EST69129 Fetal lung II Homo sapiens cDNA 5' end
12707	25384	31768	2.68	6.0E-81	BF679022.1	EST_HUMAN	602153666F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4294601 5'
12707	25384	31769	2.68	6.0E-81	BF679022.1	EST_HUMAN	602153666F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4294601 5'
2226	15240	28265	2.27	5.0E-81	BE268042.1	EST_HUMAN	601125505F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3345480 5'
8755	21723	35146	1.57	5.0E-81	AB007923.1	NT	Homo sapiens mRNA for KIAA0454 protein, partial cds
8755	21723	35147	1.57	5.0E-81	AB007923.1	NT	Homo sapiens mRNA for KIAA0454 protein, partial cds
10006	22933	36396	0.81	5.0E-81	M60316.1	NT	Human transforming growth factor-beta (tgf-beta) mRNA, complete cds
10006	22933	36397	0.81	5.0E-81	M60316.1	NT	Human transforming growth factor-beta (tgf-beta) mRNA, complete cds
11908	24789	38378	1.84	5.0E-81	9506634	NT	Homo sapiens hypothetical protein (FLJ11045), mRNA
703	13765	26700	1.21	4.0E-81	AI521435.1	EST_HUMAN	th80e12.x1 NCI_CGAP_Ov23 Homo sapiens cDNA clone IMAGE:2122702 3' similar to TR:Q85560 Q85560
1839	14866	27865	1.36	4.0E-81	AW779612.1	EST_HUMAN	hn98d02.x1 NCI_CGAP_Co14 Homo sapiens cDNA clone IMAGE:3035907 3' similar to SW:COGP_BOVIN
3186	16241	29159	4.49	4.0E-81	AB037766.1	NT	P53620 COATOMER GAMMA SUBUNIT ; Homo sapiens mRNA for KIAA1345 protein, partial cds
3644	16687	29602	0.89	4.0E-81	AW004608.1	EST_HUMAN	ws90h03.x1 NCI_CGAP_Co3 Homo sapiens cDNA clone IMAGE:2905269 3' similar to TR:O43815 O43815
4187	17218	30104	1.85	4.0E-81	AF263306.1	NT	STRIATIN ; Homo sapiens rab3 interacting protein, variant 2 mRNA, partial cds
4187	17218	30105	1.85	4.0E-81	AF263306.1	NT	Homo sapiens rab3 interacting protein, variant 2 mRNA, partial cds
4419	17446	30337	1.1	4.0E-81	8923209	NT	Homo sapiens hypothetical protein FLJ20220 (FLJ20220), mRNA
7492	20457	33815	0.93	4.0E-81	4757893	NT	Homo sapiens calcium channel, voltage-dependent, L type, alpha 2/delta subunit (CACNA2) mRNA
7629	20589	33952	0.69	4.0E-81	11420544	NT	Homo sapiens ets variant gene 1 (ETV1), mRNA
8630	21598	35019	2	4.0E-81	X06989.1	NT	Human mRNA for amyloid A4(751) protein
8690	21856	35276	3.34	4.0E-81	U20197.1	NT	Human cone photoreceptor cGMP-phosphodiesterase alpha' subunit gene, exons 2 and 3
8690	21856	35277	3.34	4.0E-81	U20197.1	NT	Human cone photoreceptor cGMP-phosphodiesterase alpha' subunit gene, exons 2 and 3
9581	22543	35994	3.82	4.0E-81	AB018001.1	NT	Homo sapiens mRNA for Death-associated protein kinase 2, complete cds
10461	23363	36878	1.82	4.0E-81	11425281	NT	Homo sapiens ligase I, DNA, ATP-dependent (LIG1), mRNA
10531	23453	36950	0.67	4.0E-81	11439065	NT	Homo sapiens acyl-Coenzyme A dehydrogenase family, member 8 (ACAD8), mRNA
10531	23453	36951	0.67	4.0E-81	11439065	NT	Homo sapiens acyl-Coenzyme A dehydrogenase family, member 8 (ACAD8), mRNA

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Table 4
Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11519	24460	38010	3.39	4.0E-81	4759085	NT	Homo sapiens vesicle trafficking protein sec22b (SEC22B) mRNA
11519	24460	38011	3.39	4.0E-81	4759085	NT	Homo sapiens vesicle trafficking protein sec22b (SEC22B) mRNA
12200	25853	31438	3.45	4.0E-81	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330) mRNA
12200	25853	31439	3.45	4.0E-81	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330) mRNA
12737	25389	31753	1.71	4.0E-81	11417871	NT	Homo sapiens beta-ureidopropionase (LOC51733) mRNA
12737	25389	31754	1.71	4.0E-81	11417871	NT	Homo sapiens beta-ureidopropionase (LOC51733) mRNA
12878	25472	31729	3.69	4.0E-81	11417874	NT	Homo sapiens transcobalamin II; macrocytic anemia (TCN2) mRNA
1272	14307	27268	10.2	3.0E-81	Y18000.1	NT	Homo sapiens NF2 gene
1272	14307	27267	10.2	3.0E-81	Y18000.1	NT	Homo sapiens NF2 gene
2380	15388	28412	1.65	3.0E-81	AF077188.1	NT	Homo sapiens cullin 4A (CUL4A) mRNA, complete cds
3004	16062	28980	5.19	3.0E-81	4506280	NT	Homo sapiens pleiotrophin (heparin binding growth factor 8, neurite growth-promoting factor 1) (PTN) mRNA
3004	16062	28981	5.19	3.0E-81	4506280	NT	Homo sapiens pleiotrophin (heparin binding growth factor 8, neurite growth-promoting factor 1) (PTN) mRNA
2844	15904	28828	2.48	2.0E-81	BE784636.1	EST_HUMAN	601474072F1 NIH_MGC 88 Homo sapiens cDNA clone IMAGE:3877121 5'
2844	15904	28829	2.48	2.0E-81	BE784636.1	EST_HUMAN	601474072F1 NIH_MGC 68 Homo sapiens cDNA clone IMAGE:3877121 5'
3787	18828	29735	0.88	2.0E-81	AW811542.1	EST_HUMAN	hg85c01.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2852384 3'
8290	21259	34870	0.53	2.0E-81	8923839	NT	Homo sapiens hypothetical protein (LOC55588) mRNA
13032	16828	29735	2.55	2.0E-81	AW611542.1	EST_HUMAN	hg85c01.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2852384 3'
4543	17566	30453	3.12	1.0E-81	AA040370.1	EST_HUMAN	PIR:S52437 S52437 CDP-diacylglycerol synthase - fruit fly;
4675	17696	30583	9.34	1.0E-81	BE047996.1	EST_HUMAN	tz45c04.y1 NCI_CGAP_Bm52 Homo sapiens cDNA clone IMAGE:2291526 5'
5308	18328	38811	3.31	1.0E-81	U87928.1	NT	Human aconitase hydratase (ACO2) gene, exon 3
5427	18530	31409	3.6	1.0E-81	11432966	NT	Homo sapiens polymerase (DNA directed), gamma (POLG) mRNA
5427	18530	31410	3.6	1.0E-81	11432966	NT	Homo sapiens polymerase (DNA directed), gamma (POLG) mRNA
5580	18678	31639	0.83	1.0E-81	AA255669.1	EST_HUMAN	z85c08.r1 Scores_NHMPu_S1 Homo sapiens cDNA clone IMAGE:682475 5' similar to SW:PRI2_HUMAN
5737	18831	32009	3.37	1.0E-81	U52351.1	NT	P49843 DNA PRIMASE 58 KD SUBUNIT
5737	18831	32010	3.37	1.0E-81	U52351.1	NT	Homo sapiens arm-repeat protein NPRAP/neurojuncin (CTNND2) mRNA, partial cds
6269	19342	32575	1.55	1.0E-81	BF674641.1	EST_HUMAN	Homo sapiens arm-repeat protein NPRAP/neurojuncin (CTNND2) mRNA, partial cds
6889	19756	33032	0.56	1.0E-81	11420965	NT	602137884F1 NIH_MGC 83 Homo sapiens cDNA clone IMAGE:4274635 5'
6889	19756	33033	0.56	1.0E-81	11420965	NT	Homo sapiens phosphodiesterase 1C, calmodulin-dependent (70kD) (PDE1C) mRNA
6889	19756	33033	0.56	1.0E-81	11420965	NT	Homo sapiens phosphodiesterase 1C, calmodulin-dependent (70kD) (PDE1C) mRNA
6802	19954	33251	1.26	1.0E-81	AJ133269.1	NT	Homo sapiens caveolin-1/-2 locus, Contig1, D7S522, genes CAV2 (exons 1, 2a, and 2b), CAV1 (exons 1 and 2)

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Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8049	20988	34382	7.53	1.0E-81	11432968	NT	Homo sapiens polymerase (DNA directed), gamma (POLG), mRNA
10134	23060	36537	7.65	1.0E-81	BE98278.1	EST_HUMAN	601645051F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:3930228 5'
10134	23060	36538	7.65	1.0E-81	BE98278.1	EST_HUMAN	601645051F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:3930228 5'
10328	23252	36731	4.63	1.0E-81	BE564367.1	EST_HUMAN	601343180F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3685483 5'
							ac14d06.s1 Stratiagene HeLa cell s3 937216 Homo sapiens cDNA clone IMAGE:956427 3' similar to SW:YB36_YEAST P38128 HYPOTHETICAL 60.5 KD PROTEIN IN RPS101-RPS13 INTERGENIC REGION ;
10463	23385	36878	1.09	1.0E-81	AA630784.1	EST_HUMAN	601577339F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3838280 5'
10465	23397	36880	3.01	1.0E-81	BE744545.1	EST_HUMAN	601577339F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3838280 5'
10485	23387	36881	3.01	1.0E-81	BE744545.1	EST_HUMAN	601577339F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3838280 5'
10874	23794	37296	1.7	1.0E-81	AW897550.1	EST_HUMAN	GM3-NN0059-140400-147-at12 NN0059 Homo sapiens cDNA
11425	24369	37905	2.9	1.0E-81	AW844986.1	EST_HUMAN	MRO-CT0006-250599-019 CT0006 Homo sapiens cDNA
11425	24369	37906	2.9	1.0E-81	AW844986.1	EST_HUMAN	MRO-CT0006-250599-019 CT0006 Homo sapiens cDNA
11429	24373	37911	6.55	1.0E-81	AW798167.1	EST_HUMAN	RC3-UM0046-290200-011-a06 UM0046 Homo sapiens cDNA
11429	24373	37912	6.55	1.0E-81	AW798167.1	EST_HUMAN	RC3-UM0046-290200-011-a06 UM0046 Homo sapiens cDNA
11851	24734	38321	2.11	1.0E-81	BF204253.1	EST_HUMAN	601867714F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4110459 5'
12414	25185	31822	4.59	1.0E-81	11418138	NT	Homo sapiens phospholipase (similar to apolipoprotein B mRNA editing protein) (DJ742C19.2), mRNA
13	13133	26031	0.94	8.0E-82	AF161408.1	NT	Homo sapiens HSPC288 mRNA, partial cds
107	13133	26031	2.07	8.0E-82	AF161406.1	NT	Homo sapiens HSPC288 mRNA, partial cds
263	13359	26284	2.7	8.0E-82	U08988.1	NT	Human CRFB4 gene, partial cds
815	13873	26821	14.95	8.0E-82	U08988.1	NT	Human CRFB4 gene, partial cds
898	13943	26901	1.44	8.0E-82	U08988.1	NT	Human CRFB4 gene, partial cds
1487	14520	27493	1.36	8.0E-82	AB037748.1	NT	Homo sapiens mRNA for KIAA1327 protein, partial cds
1666	14698	27674	1.7	8.0E-82	6715601	NT	Homo sapiens glutathione peroxidase 5 (epididymal androgen-related protein) (GPX5), transcript variant 2, mRNA
4114	17148	30040	0.62	8.0E-82	4504116	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
4272	17301	30181	0.75	8.0E-82	8923432	NT	Homo sapiens hypothetical protein FLJ20461 (FLJ20461), mRNA
1444	14477	28789	2.53	7.0E-82	BF055327.1	EST_HUMAN	601458531F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3862086 5'
2777	15769	28789	1.8	7.0E-82	AU144050.1	EST_HUMAN	AU144050 HEMBA1 Homo sapiens cDNA clone HEMBA1000752 3'
12053	24926	38524	1.75	7.0E-82	AA663747.1	EST_HUMAN	ae86a04.s1 Stratiagene schizo brain S11 Homo sapiens cDNA clone IMAGE:968342 3'
1680	14712	27690	25.07	4.0E-82	AF081484.1	NT	Homo sapiens alpha-tubulin isoform 1 mRNA, complete cds
5574	18670	31632	0.89	4.0E-82	BF351691.1	EST_HUMAN	QV2-HT0540-120900-362-08 HT0540 Homo sapiens cDNA
5574	18670	31633	0.89	4.0E-82	BF351691.1	EST_HUMAN	QV2-HT0540-120900-362-08 HT0540 Homo sapiens cDNA
5851	18941	32126	0.59	4.0E-82	M25833.1	NT	Human von Willebrand factor gene, exon 9

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12025	24901	38496	7.32	4.0E-82	AI937300.1	EST_HUMAN	wb75a09.x1 NCI_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2487624 3' similar to TR:O75276
12657	25337		3.69	4.0E-82	AF029701.2	NT	Homo sapiens PKD1 ; Homo sapiens presenilin-1 gene, exons 1 and 2
277	13373	26301	16.34	3.0E-82	4502166	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
704	13766	26701	2.76	3.0E-82	BE005705.1	EST_HUMAN	RC2-BN0120-010400-013-02 BN0120 Homo sapiens cDNA
788	13847	26794	10.4	3.0E-82	5174702	NT	Homo sapiens transforming growth factor beta-activated kinase-binding protein 1 (TAB1), mRNA
871	13927	26885	6.11	3.0E-82	4502166	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
1062	14108		53.62	3.0E-82	AA725848.1	EST_HUMAN	al23a05.s1 Soares_Tests_NHT Homo sapiens cDNA clone 1343648 3'
1357	14392	27363	1.01	3.0E-82	AW875073.1	EST_HUMAN	RC8-PT0001-190100-021-B02 PT0001 Homo sapiens cDNA
1462	14495	27499	2.51	3.0E-82	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
1917	14941	27937	1.95	3.0E-82	BE813232.1	EST_HUMAN	RC1-BN0005-260700-018-g04 BN0005 Homo sapiens cDNA
2023	15043	28056	1.2	3.0E-82	4501922	NT	Homo sapiens adenylyate cyclase activating polypeptide 1 (pituitary) receptor type I (ADCYAP1R1) mRNA
3285	16339		2.31	3.0E-82	845331.1	NT	Homo sapiens neurotrophic tyrosine kinase, receptor, type 2 (NTRK2) mRNA
8492	21460	34877	2.7	3.0E-82	11425208	NT	Homo sapiens ankyrin-like with transmembrane domains 1 (ANKTM1), mRNA
8902	21668	35292	0.77	3.0E-82	11432889	NT	Homo sapiens contactin 6 (CNTN6), mRNA
8902	21668	35293	0.77	3.0E-82	11432889	NT	Homo sapiens contactin 6 (CNTN6), mRNA
10183	23108	36590	3.98	3.0E-82	AB029000.1	NT	Homo sapiens contactin 6 (CNTN6), mRNA
10183	23108	36591	3.98	3.0E-82	AB029000.1	NT	Homo sapiens mRNA for KIAA1077 protein, partial cds
12108	24978	38577	1.8	3.0E-82	11432889	NT	Homo sapiens contactin 6 (CNTN6), mRNA
12108	24978	38578	1.6	3.0E-82	11432889	NT	Homo sapiens contactin 6 (CNTN6), mRNA
599	13666	26579	1.96	2.0E-82	AB023216.1	NT	Homo sapiens mRNA for KIAA0999 protein, partial cds
599	13666	26580	1.96	2.0E-82	AB023216.1	NT	Homo sapiens mRNA for KIAA0999 protein, partial cds
1694	14724	27707	2.13	2.0E-82	AL046390.1	EST_HUMAN	DKFZp434M117.1 434 (synonym: hba3) Homo sapiens cDNA clone DKFZp434M117.5
2991	16049	28970	0.78	2.0E-82	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
3860	16899	28802	1.07	2.0E-82	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
4052	17099	29984	0.65	2.0E-82	U76833.1	NT	Human integral membrane serine protease Seprase mRNA, complete cds
4261	17290	30171	1.07	2.0E-82	4504116	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
4588	17610	30505	1.09	2.0E-82	AB029019.1	NT	Homo sapiens mRNA for KIAA1096 protein, partial cds
4588	17610	30506	1.09	2.0E-82	AB029019.1	NT	Homo sapiens mRNA for KIAA1096 protein, partial cds
4904	17921	30813	3.21	2.0E-82	AF045555.1	NT	Homo sapiens wbscr1 (WBSCR1) and wbscr5 (WBSCR5) genes, complete cds, alternatively spliced and replication factor C subunit 2 (RFC2) gene, complete cds

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Table 4
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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5117	18127	31002	1.53	2.0E-82	4507580	NT	Homo sapiens tumor necrosis factor receptor superfamily, member 5 (TNFRSF5) mRNA
5117	18127	31003	1.53	2.0E-82	4507580	NT	Homo sapiens tumor necrosis factor receptor superfamily, member 5 (TNFRSF5) mRNA
5546	18643	31583	3.46	2.0E-82	AB018270.1	NT	Homo sapiens mRNA for KIAA0727 protein, partial cds
6299	19371	32610	4.99	2.0E-82	AF234882.1	NT	Homo sapiens FAM4A1 splice variant a (FAM4A1) mRNA, complete cds
7945	26004		0.88	2.0E-82	AI476428.1	EST_HUMAN	hm21g05.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2157272 3'
8104	21041	34440	0.99	2.0E-82	8923130	NT	Homo sapiens hypothetical protein FLJ20128 (FLJ20128), mRNA
8589	21557	34973	0.48	2.0E-82	11431845	NT	Homo sapiens nucleotide binding protein 1 (E.coli MinD like) (NUBP1), mRNA
8648	21616	35038	1.94	2.0E-82	11321570	NT	Homo sapiens slit (Drosophila) homolog 3 (SLIT3), mRNA
9017	21983	35402	0.47	2.0E-82	7657340	NT	Homo sapiens microtubule (mouse) homolog (MORC), mRNA
9017	21983	35403	0.47	2.0E-82	7657340	NT	Homo sapiens microtubule (mouse) homolog (MORC), mRNA
10468	23390	36884	1.66	2.0E-82	Y08032.1	NT	Human endogenous retrovirus-K, LTR U5 and gag gene
10468	23390	36885	1.66	2.0E-82	Y08032.1	NT	Human endogenous retrovirus-K, LTR U5 and gag gene
11600	24538	38095	3.95	2.0E-82	11417191	NT	Homo sapiens leucyl/cystinyl aminopeptidase (LNPEP), mRNA
11600	24538	38096	3.95	2.0E-82	11417191	NT	Homo sapiens leucyl/cystinyl aminopeptidase (LNPEP), mRNA
11638	24575	38140	2.31	2.0E-82	U80736.1	NT	Homo sapiens CAGF9 mRNA, partial cds
11638	24575	38141	2.31	2.0E-82	U80736.1	NT	Homo sapiens CAGF9 mRNA, partial cds
12227	25062		1.94	2.0E-82	N94950.1	EST_HUMAN	zb31d10.s1 Soares_parathyroid_tumor_Nb1HPA Homo sapiens cDNA clone IMAGE:305203 3'
12760	25403		4.39	2.0E-82	AA011278.1	EST_HUMAN	z01g09.r1 Soares_fetal_liver_spleen_TNFLS_S1 Homo sapiens cDNA clone IMAGE:429568 5'
13084	25598		1.53	2.0E-82	11418097	NT	Homo sapiens SRY (sex determining region Y)-box 10 (SOX10), mRNA
594	13661	26574	1.27	1.0E-82	11545921	NT	Homo sapiens melanoma differentiation associated protein-5 (MDA5), mRNA
1213	14281		1.09	1.0E-82	BE885106.1	EST_HUMAN	601510859F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3912207 5'
1290	14325	27286	2.11	1.0E-82	BE064386.1	EST_HUMAN	RC4-BT0310-110300-015-f10 BT0310 Homo sapiens cDNA
1291	14326	27287	1.07	1.0E-82	AB011110.2	NT	Homo sapiens mRNA for KIAA0538 protein, partial cds
9294	22260	35689	1.09	1.0E-82	AB037838.1	NT	Homo sapiens mRNA for KIAA1417 protein, partial cds
10011	22938	36403	0.56	1.0E-82	AB014582.1	NT	Homo sapiens mRNA for KIAA0662 protein, partial cds
10606	23528		1.24	1.0E-82	BF515938.1	EST_HUMAN	UI-H-BW1-aca-f-03-0-U1.s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3084053 3'
11097	24057	37581	1.87	1.0E-82	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
9065	22031	35454	4.87	9.0E-83	BF672220.1	EST_HUMAN	602150403F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4291561 5'
10637	23559	37058	0.62	9.0E-83	BE253347.1	EST_HUMAN	60117160F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3357734 5'
1412	14445	27417	1.55	8.0E-83	BE383973.1	EST_HUMAN	601273346F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3614362 5'
1691	15820	27702	4.08	8.0E-83	N66951.1	EST_HUMAN	za48f12.s1 Soares_fetal_liver_spleen_TNFLS Homo sapiens cDNA clone IMAGE:295823 3'
1359	14394	27364	0.99	7.0E-83	AW385529.1	EST_HUMAN	QV4.LT0016-271298-068-h11 LT0016 Homo sapiens cDNA
							no12h01.s1 NCI_CGAP_Phe1 Homo sapiens cDNA clone IMAGE:1100497 3' similar to contains Alu repetitive element;
2876	15935		1.92	7.0E-83	AA584655.1	EST_HUMAN	

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4853	17870		7.64	7.0E-83	BF221813.1	EST_HUMAN	7p37a07.x1 NCJ_CGAP_Pt28 Homo sapiens cDNA clone IMAGE:3647893 3' similar to TR:Q9Y3I8 Q9Y3I6
6169	19244	32476	0.73	7.0E-83	11426657	NT	Homo sapiens KIAA0100 gene product (KIAA0100), mRNA
403	13476	28410	3.07	6.0E-83	M33320.1	NT	Human platelet Glycoprotein IIb (GPIIb) gene, exons 2-29
1802	14830	27817	1.08	6.0E-83	AW573088.1	EST_HUMAN	h31h03.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2933525 3' similar to
3030	16089	29008	0.84	6.0E-83	AW816405.1	EST_HUMAN	SW:YBEB_HAEIN_P44471 HYPOTHETICAL PROTEIN H00034.1
3064	16121		0.97	6.0E-83	AF231919.1	NT	QV4-ST0234-181199-037-05 ST0234 Homo sapiens cDNA
3083	16140	29051	1.03	6.0E-83	AA701457.1	EST_HUMAN	Homo sapiens chromosome 21 unknown mRNA
3575	16820	29541	2.54	6.0E-83	11430241	NT	z159c05.s1 Soares_fetal_liver_spleen_INFLS_S1 Homo sapiens cDNA clone IMAGE:435080 3'
5167	18176	31054	1.2	6.0E-83	4827033	NT	Homo sapiens hypothetical protein FLJ10378 (FLJ10378), mRNA
5366	18471	31342	1.53	6.0E-83	4507866	NT	Homo sapiens VAMP (vesicle-associated membrane protein)-associated protein A (33kD) (VAPA) mRNA, and translated products
6139	19215	32444	1.32	6.0E-83	AJ010770.1	NT	Homo sapiens hyperion gene, exons 1-50
7745	20699	34065	2.1	6.0E-83	11422024	NT	Homo sapiens met proto-oncogene (hepatocyte growth factor receptor) (MET), mRNA
10035	22962	38430	2.5	6.0E-83	4505314	NT	Homo sapiens myomesin (M-protein) 2 (165kD) (MYOM2), mRNA
10127	23053	36531	0.76	6.0E-83	11430647	NT	Homo sapiens pre-mRNA splicing factor similar to S. cerevisiae Prp18 (PRP18), mRNA
10127	23053	36532	0.76	6.0E-83	11430647	NT	Homo sapiens pre-mRNA splicing factor similar to S. cerevisiae Prp18 (PRP18), mRNA
11859	24741		2.01	6.0E-83	AA486105.1	EST_HUMAN	ab14e10.s1 Stratagene lung (#937210) Homo sapiens cDNA clone IMAGE:840810 3' similar to contains THR12 THR repetitive element:
12179	25027		5.85	6.0E-83	AF240788.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
945	13993		1.42	5.0E-83	UJ17883.1	NT	Human succinate dehydrogenase iron-protein subunit (sdhB) gene, exon 5
2068	15823		1	5.0E-83	AF008305.1	NT	Homo sapiens 26S proteasome regulatory subunit (SUG2) mRNA, complete cds
3652	16695	29610	0.97	5.0E-83	AL133207.2	NT	Novel human gene mapping to chromosome X
3926	16966	29879	1.02	5.0E-83	4885190	NT	Homo sapiens diacylglycerol kinase 1 (DNASE1), mRNA
5115	18126	31000	14.32	5.0E-83	4557013	NT	Homo sapiens catalase (CAT) mRNA
5115	18125	31001	14.32	5.0E-83	4557013	NT	Homo sapiens catalase (CAT) mRNA
5245	18253	31124	0.93	5.0E-83	4505802	NT	Homo sapiens phosphatidylinositol 3-kinase, catalytic, gamma polypeptide (PIK3CG) mRNA
641	13707	26628	2.28	4.0E-83	AF224669.1	NT	Homo sapiens mannosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3 (UBE2D3) genes, complete cds
3525	16571	29494	1	4.0E-83	BE888078.1	EST_HUMAN	601511580F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3913195 5'
999	14050		6.39	3.0E-83	AA368311.1	EST_HUMAN	EST176542 Placenta I Homo sapiens cDNA similar to endogenous retrovirus ERV8

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Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2788	15780		1.82	3.0E-83	AA632654.1	EST_HUMAN	np87d07.s1 NCI_CGAP_Thy1 Homo sapiens cDNA clone IMAGE:1133292 similar to contains THR12 THR
6730	19786		0.72	3.0E-83	A1217223.1	EST_HUMAN	q773e06.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1755882 3'
1816	14843	27834	1.68	2.0E-83	AA993492.1	EST_HUMAN	ot64g05.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1621592 3' similar to TR:Q92614
1816	14843	27834	1.68	2.0E-83	AA993492.1	EST_HUMAN	ot64g05.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1621592 3' similar to TR:Q92614
1816	14843	27834	1.68	2.0E-83	AA993492.1	EST_HUMAN	ot64g05.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1621592 3' similar to TR:Q92614
1942	14966	27963	3.01	2.0E-83	N66951.1	EST_HUMAN	za48f12.s1 Soares_fetal_liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:296823 3'
2864	15924	28843	1.36	2.0E-83	BE828694.1	EST_HUMAN	RC6-E10048-280600-013-H12 E10046 Homo sapiens cDNA
3282	16336		2.14	2.0E-83	11430834	NT	Homo sapiens sal (Drosophila)-like 1 (SALL1), mRNA
3788	16829		0.87	2.0E-83	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
4363	17390	30272	9.76	2.0E-83	AF202879.1	NT	Homo sapiens hematopoietic progenitor cell antigen CD34 precursor (CD34) mRNA, partial cds
4681	17702	30590	6.03	2.0E-83	7706398	NT	Homo sapiens ankyrin repeat-containing protein ASB-2 (LOC51676), mRNA
4681	17702	30591	6.03	2.0E-83	7706398	NT	Homo sapiens ankyrin repeat-containing protein ASB-2 (LOC51676), mRNA
5343	18448	31319	0.94	2.0E-83	U06679.1	NT	Human carcinoembryonic antigen gene family member 18 (CEM18) gene, exons A1 and B1
5547	18644	31584	1.09	2.0E-83	11024711	NT	Homo sapiens myosin, heavy polypeptide 4, skeletal muscle (MYH4), mRNA
5547	18644	31585	1.09	2.0E-83	11024711	NT	Homo sapiens myosin, heavy polypeptide 4, skeletal muscle (MYH4), mRNA
5945	19031	32224	0.54	2.0E-83	11428081	NT	Homo sapiens membrane protein CH1 (CH1), mRNA
6076	19157	32369	1.21	2.0E-83	BE885401.1	EST_HUMAN	601507482F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3909068 5'
7689	20628	33992	5.47	2.0E-83	AF129533.1	NT	Homo sapiens F-box protein Fbl3b (FBL3B) mRNA, partial cds
8103	21039	34438	0.52	2.0E-83	BF105097.1	EST_HUMAN	601822090F1 NIH_MGC_75 Homo sapiens cDNA clone IMAGE:4042318 5'
8175	21145	34551	0.55	2.0E-83	AB001025.1	NT	Homo sapiens mRNA for brain tyrosine receptor, complete cds
8175	21145	34552	0.55	2.0E-83	AB001025.1	NT	Homo sapiens mRNA for brain tyrosine receptor, complete cds
8319	21288	34702	1.46	2.0E-83	U66707.1	NT	Rattus norvegicus densin-180 mRNA, complete cds
8657	21625	35045	2.5	2.0E-83	AF011920.1	NT	Homo sapiens protein kinase CK2 catalytic subunit alpha gene, exon 1
8657	21625	35046	2.5	2.0E-83	AF011920.1	NT	Homo sapiens protein kinase CK2 catalytic subunit alpha gene, exon 1
8952	22879	36342	0.46	2.0E-83	5453881	NT	Homo sapiens phosphatase kinase, gamma 1 (muscle) (PHKG1) mRNA
8952	22879	36343	0.46	2.0E-83	5453881	NT	Homo sapiens phosphatase kinase, gamma 1 (muscle) (PHKG1) mRNA
10242	23167	36654	0.43	2.0E-83	BF128748.1	EST_HUMAN	601811127F1 NIH_MGC_48 Homo sapiens cDNA clone IMAGE:4053894 5'
10394	23316	36795	2.53	2.0E-83	M22094.1	NT	Human neural cell adhesion molecule (N-CAM) secreted isoform mRNA, 3' end
10394	23316	36796	2.53	2.0E-83	M22094.1	NT	Human neural cell adhesion molecule (N-CAM) secreted isoform mRNA, 3' end
10475	23397	36895	1.2	2.0E-83	AU117669.1	EST_HUMAN	AU117669 HEMBA1 Homo sapiens cDNA clone HEMBA1001910 5'
10549	23471	36966	0.74	2.0E-83	AW505600.1	EST_HUMAN	U1HF-BNO-amd-h-07-0-UI-1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3081852 5'
11195	24150	37681	3.48	2.0E-83	11436448	NT	Homo sapiens KIAA0985 protein (KIAA0985), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11272	24224	37749	1.84	2.0E-83	AL134452.1	EST_HUMAN	DKFZp547J135_r1 547 (synonym: hibr1) Homo sapiens cDNA clone DKFZp547J135 5'
11272	24224	37750	1.84	2.0E-83	AL134452.1	EST_HUMAN	DKFZp547J135_r1 547 (synonym: hibr1) Homo sapiens cDNA clone DKFZp547J135 5'
12802	25429		4.91	2.0E-83	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
1410	14443	27414	1.56	1.0E-83	4504326	NT	Homo sapiens hydroxyacyl-Coenzyme A dehydrogenase/3-ketobacyl-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), beta subunit (HADHB) mRNA
1410	14443	27415	1.56	1.0E-83	4504326	NT	Homo sapiens hydroxyacyl-Coenzyme A dehydrogenase/3-ketobacyl-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), beta subunit (HADHB) mRNA
1453	14486	27461	0.93	1.0E-83	AF105067.1	NT	Homo sapiens lipopolysaccharide-binding protein (LBP) mRNA, complete cds
1453	14486	27462	0.83	1.0E-83	AF105067.1	NT	Homo sapiens lipopolysaccharide-binding protein (LBP) mRNA, complete cds
2665	15662	28681	1.16	1.0E-83	BE883690.1	EST_HUMAN	601507375F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3908754 5'
3198	18253	29173	0.65	1.0E-83	7662349	NT	Homo sapiens cell recognition molecule Caspr2 (KIAA0868), mRNA
3682	16922	29630	3.33	1.0E-83	AF053769.1	NT	Rattus norvegicus brain specific cortactin-binding protein CBP90 mRNA, partial cds
4273	17302	30182	2.31	1.0E-83	Z25822.1	NT	H. sapiens gene for mitochondrial dodecanoyl-CoA delta-Isomerase, exon 3
6854	19907	33203	1.53	1.0E-83	A1027614.1	EST_HUMAN	o199b08.x1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:1645431 3' similar to gb:M64241 QM PROTEIN (HUMAN);
3810	18850	29758	3.98	7.0E-84	BE601208.1	EST_HUMAN	601676023F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3958853 5'
1298	14333	27294	4.11	6.0E-84	BE838884.1	EST_HUMAN	RC2-FN0119-200600-011-g05 FN0119 Homo sapiens cDNA
1288	14333	27295	4.11	6.0E-84	BE838884.1	EST_HUMAN	RC2-FN0119-200600-011-g05 FN0119 Homo sapiens cDNA
2407	15414	28438	5.78	6.0E-84	AA776574.1	EST_HUMAN	ae8a03.s1 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:971020 3'
5311	18328		1.9	6.0E-84	AL042863.2	EST_HUMAN	DKFZp434H0322_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434H0322 5'
5596	18692	31682	1.89	6.0E-84	AA897339.1	EST_HUMAN	ai47g03.s1 Soares NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1460500 3' similar to gb:M14338 VITAMIN K-DEPENDENT PROTEIN S PRECURSOR (HUMAN);
5743	18837	32018	1.09	6.0E-84	11426718	NT	Homo sapiens acetyl LDL receptor; SREC= scavenger receptor expressed by endothelial cells (SREC), mRNA
5743	18837	32019	1.09	6.0E-84	11426718	NT	Homo sapiens acetyl LDL receptor; SREC= scavenger receptor expressed by endothelial cells (SREC), mRNA
7714	20671	34038	3.35	6.0E-84	BE810371.1	EST_HUMAN	PMO-L.T0019-180600-004-F02 LT0019 Homo sapiens cDNA
7955	20896	34289	0.89	6.0E-84	AF038391.1	NT	Homo sapiens pre-mRNA splicing factor (PRP16) mRNA, complete cds
8408	21377	34763	2.05	6.0E-84	BE770189.1	EST_HUMAN	PM4-F10054-160600-004-e10 F10054 Homo sapiens cDNA
715	13777	26712	0.81	5.0E-84	AA382811.1	EST_HUMAN	EST98694 Testis I Homo sapiens cDNA 5' end
3027	18084		1.54	5.0E-84	AF109718.1	NT	Homo sapiens chromosome 3 subtelomeric region
6227	19301	32534	0.49	5.0E-84	AA167678.1	EST_HUMAN	zq39e07.r1 Stratagene INT neuron; (#937233) Homo sapiens cDNA clone IMAGE:632100 5' similar to TR:G483915 G483915 RETROTRANSPOSABLE L1 ELEMENT LRE2 FROM CHROMOSOME 1Q.;

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11871	24753	38334	2.06	5.0E-84	11428740	NT	Homo sapiens regulatory factor X, 3 (influences HLA class II expression) (RFX3), mRNA
11964	24843	38437	2.29	5.0E-84	AB032957.1	NT	Homo sapiens mRNA for KIAA1131 protein, partial cds
11964	24843	38438	2.29	5.0E-84	AB032957.1	NT	Homo sapiens mRNA for KIAA1131 protein, partial cds
1409	14442	27413	1.68	4.0E-84	AI685321.1	EST_HUMAN	wa76c04.x1 Soares_NFL_T_GBC_S1 (Homo sapiens cDNA clone IMAGE:2302086 3' similar to SW:NRDC_HUMAN_O43847 NARDILYSIN PRECURSOR;
4987	18002	30891	0.99	4.0E-84	4505928	NT	Homo sapiens polymerase (DNA-directed), alpha (70kD) (POLA2), mRNA
4988	18003	30892	2.19	4.0E-84	AF069601.2	NT	Homo sapiens myosin light chain kinase isoform 2 (MLCK) mRNA, complete cds
5335	18440	31193	0.53	4.0E-84	AF022835.1	NT	Homo sapiens multidrug resistance protein (MRP), exon 13
5642	18738	31902	1.28	4.0E-84	11386168	NT	Homo sapiens protein tyrosine phosphatase, receptor type, G (PTPRG), mRNA
5642	18738	31903	1.28	4.0E-84	11386168	NT	Homo sapiens protein tyrosine phosphatase, receptor type, G (PTPRG), mRNA
6389	18467	32714	1.89	4.0E-84	AF059650.1	NT	Homo sapiens histone deacetylase 3 (HDAC3) gene, complete cds
7909	20852	34239	12.53	4.0E-84	11421326	NT	Homo sapiens KIAA0783 gene product (KIAA0783), mRNA
9262	22228	35658	0.9	4.0E-84	4557526	NT	Homo sapiens discs, large (Drosophila) homolog 2 (chapsyn-110) (DLG2) mRNA
9262	22228	35659	0.9	4.0E-84	4557526	NT	Homo sapiens discs, large (Drosophila) homolog 2 (chapsyn-110) (DLG2) mRNA
11263	24215	37739	5.34	4.0E-84	AB032958.1	NT	Homo sapiens Bach1 protein homolog mRNA, partial cds
316	13408	26334	1.92	3.0E-84	AF026200.1	NT	Homo sapiens chondroitin sulfate proteoglycan 2 (versican) (CSPG2) mRNA
1157	14199	27149	5.95	3.0E-84	4758081	NT	Homo sapiens pericentriolar material 1 (PCM1) mRNA
1977	14998	28000	1.24	3.0E-84	5453855	NT	Novel human mRNA containing Zinc finger C2H2 type domains
2024	15044	28057	3.11	3.0E-84	AL096880.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
3604	16649	29565	1.15	3.0E-84	AB026898.1	NT	Homo sapiens X-linked juvenile retinoschisis precursor protein (XLRSP) mRNA, complete cds
3762	16803	29715	6.28	3.0E-84	AF014459.1	NT	Homo sapiens X-linked juvenile retinoschisis precursor protein (XLRSP) mRNA, complete cds
11226	24179		17.2	3.0E-84	AI983801.1	EST_HUMAN	wu20405.x1 Soares_Dieckgraefe_colon_NHCD Homo sapiens cDNA clone IMAGE:2520585 3' similar to gb:U05093.60S RIBOSOMAL PROTEIN L18A (HUMAN);
2115	15132	28153	5.68	2.0E-84	BE695397.1	EST_HUMAN	CM1-BT0795-190600-272-508 BT0795 Homo sapiens cDNA
2115	15132	28154	5.68	2.0E-84	BE695397.1	EST_HUMAN	CM1-BT0795-190600-272-508 BT0795 Homo sapiens cDNA
2954	16012	28939	7.98	2.0E-84	AF036943.1	NT	Homo sapiens myelin transcription factor 1-like (MYT1-L) mRNA, complete cds
2973	16031	28954	1.35	2.0E-84	X89211.1	NT	H. sapiens DNA for endogenous retroviral like element
5604	18700	31671	0.88	2.0E-84	BF511575.1	EST_HUMAN	UI-H-B14-ad-a-02-0-UI.s1 NCJ CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3084963 3'
5604	18700	31672	0.88	2.0E-84	BF511575.1	EST_HUMAN	UI-H-B14-ad-a-02-0-UI.s1 NCJ CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3084963 3'
6793	19847	33132	0.88	2.0E-84	H63370.1	EST_HUMAN	yr56e11.s1 Soares fetal liver spleen 1NfLS Homo sapiens cDNA clone IMAGE:209324 3'
8392	21361		1.62	2.0E-84	AI298674.1	EST_HUMAN	qm87c09.x1 NCJ CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1895728 3'
8728	21696	35121	0.56	2.0E-84	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
8728	21696	35122	0.56	2.0E-84	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004

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Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9701	22654	36108	0.99	2.0E-84	AU120280.1	EST_HUMAN	AU120280 HEMBB1 Homo sapiens cDNA clone HEMBB1000339 5'
10089	23015	36491	0.55	2.0E-84	H22841.1	EST_HUMAN	ym49e11.1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:51383 5' similar to SP:APOH_RAT P26844 BETA-2-GLYCOPROTEIN I;
12445	25206	31829	3.26	2.0E-84	BF448000.1	EST_HUMAN	nae30a02.x1 Lupski_sympathetic_trunk Homo sapiens cDNA clone IMAGE:4090251 3' similar to TR:Q9UGS3 Q9UGS3 DJ756G23.1;
12445	25206	31830	3.26	2.0E-84	BF448000.1	EST_HUMAN	nae30a02.x1 Lupski_sympathetic_trunk Homo sapiens cDNA clone IMAGE:4090251 3' similar to TR:Q9UGS3 Q9UGS3 DJ756G23.1;
312	13404	26330	1.44	1.0E-84	AF114488.1	NT	Homo sapiens tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, zeta polypeptide (YWHAZ) mRNA
551	13621	26541	15.79	1.0E-84	4507962	NT	Homo sapiens complement component 5 (C5), mRNA
721	13783		1.16	1.0E-84	11427831	NT	Homo sapiens complement component 5 (C5), mRNA
1296	14331	27292	3.1	1.0E-84	AA984379.1	EST_HUMAN	am85b11.s1 Stralagene schizo brain S11 Homo sapiens cDNA clone IMAGE:1629885 3'
2070	15087	28105	2.34	1.0E-84	BE392137.1	EST_HUMAN	601308006F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3626257 5'
2232	15246	28289	1.27	1.0E-84	11427197	EST_HUMAN	Homo sapiens pericentriolar material 1 (PCMT1), mRNA
3764	16806	29717	2.47	1.0E-84	AA720851.1	EST_HUMAN	nm12e06.st NCI_CGAP_SS1 Homo sapiens cDNA clone IMAGE:1239106 3'
4446	17472	30360	3.92	1.0E-84	AJ229041.1	NT	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22; segment 1/3
4728	17748	30639	2.68	1.0E-84	AL043314.2	EST_HUMAN	DKFZp434N0323_1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434N0323 5'
4728	17748	30840	2.66	1.0E-84	AL043314.2	EST_HUMAN	DKFZp434N0323_1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434N0323 5'
4949	17472	30360	2.12	1.0E-84	AJ228041.1	NT	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22; segment 1/3
6029	19112	32314	0.86	1.0E-84	11434422	NT	Homo sapiens speckle-type POZ protein (SPOP), mRNA
6314	19385	32627	1.38	1.0E-84	S73482.1	NT	uterine water channel=28 kDa erythrocyte integral membrane protein homolog [human, uterus, mRNA, 1340 nt]
7084	20086	33394	1.44	1.0E-84	AL049784.1	NT	Novel human gene mapping to chromosome 13
7084	20086	33395	1.44	1.0E-84	AL049784.1	NT	Novel human gene mapping to chromosome 13
7314	20285	33626	2.66	1.0E-84	AL049784.1	NT	Novel human gene mapping to chromosome 13
7708	20665	34032	4.72	1.0E-84	8393994	NT	Homo sapiens polymerase (DNA directed), alpha (POLA), mRNA
7814	20763	34139	0.63	1.0E-84	11430846	NT	Homo sapiens NGF1A binding protein 1 (ERG1 binding protein 1) (NAB1), mRNA
7859	20763	34139	2.13	1.0E-84	11430846	NT	Homo sapiens NGF1A binding protein 1 (ERG1 binding protein 1) (NAB1), mRNA
8893	22846		2.91	1.0E-84	5031984	NT	Homo sapiens nuclear transport factor 2 (placental protein 15) (PP15), mRNA
10128	23034	36533	0.62	1.0E-84	AF224511.1	NT	Homo sapiens Ca2+-binding protein CABP3 (CABP3) gene, exon 6 and partial cds
10150	18337	31285	2.65	1.0E-84	4507848	NT	Homo sapiens ubiquitin specific protease 13 (isopeptidase T-3) (USP13) mRNA
10150	18337	31288	2.65	1.0E-84	4507848	NT	Homo sapiens ubiquitin specific protease 13 (isopeptidase T-3) (USP13) mRNA
12121	20285	33626	2.67	1.0E-84	AL049784.1	NT	Novel human gene mapping to chromosome 13
12324	25126		2.03	1.0E-84	11417812	NT	Homo sapiens purinergic receptor P2X-like 1, orphan receptor (P2RXL1), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12436	25201	31825	2.32	1.0E-84	11418185	NT	Homo sapiens acetylase 2, mitochondrial (ACO2), mRNA
988	14020		1.9	9.0E-85	AL163208.2	NT	Homo sapiens chromosome 21 segment HS21C009
1074	14119	27069	2.21	9.0E-85	U51432.1	NT	Homo sapiens nuclear protein Skip mRNA, complete cds
1074	14119	27070	2.21	9.0E-85	U51432.1	NT	Homo sapiens nuclear protein Skip mRNA, complete cds
1581	14614	27586	1.31	9.0E-85	M33282.1	NT	Human plasminogen gene, exon 7
1581	14614	27587	1.31	9.0E-85	M33282.1	NT	Human plasminogen gene, exon 7
1684	14715	27635	2.95	9.0E-85	7657020	NT	Homo sapiens DKFZP434P211 protein (DKFZP434P211), mRNA
4280	17309	30188	1.11	9.0E-85	AL163280.2	NT	Homo sapiens chromosome 21 segment HS21C080
4913	17930	30821	1.05	9.0E-85	5901979	NT	Homo sapiens heat shock transcription factor 2 binding protein (HSP2BP), mRNA
4950	17965	30855	1	9.0E-85	AL163288.2	NT	Homo sapiens chromosome 21 segment HS21C068
1138	14181	27132	13.33	7.0E-85	L05094.1	NT	Homo sapiens ribosomal protein L27 mRNA, complete cds
11958	24837		9.76	7.0E-85	AF113210.1	NT	Homo sapiens MSTP030 mRNA, complete cds
11745	24830	38209	2.51	6.0E-85	11438573	NT	Homo sapiens DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 10 (RNA helicase) (DDX10), mRNA
11745	24830	38210	2.51	6.0E-85	11438573	NT	Homo sapiens DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 10 (RNA helicase) (DDX10), mRNA
2340	15350	28371	1.67	5.0E-85	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
5526	18625	31560	1.37	5.0E-85	BF035674.1	EST_HUMAN	601458646F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3862402 5'
5526	18625	31561	1.37	5.0E-85	BF035674.1	EST_HUMAN	601458646F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3862402 5'
13030	18344		6.19	5.0E-85	AF211189.1	NT	Homo sapiens T-type calcium channel alpha1 subunit Alpha11-a isoform (CACNA11) mRNA, complete cds
6271	19344	32576	1.42	4.0E-85	BF677910.1	EST_HUMAN	602084730F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4249087 5'
6271	19344	32577	1.42	4.0E-85	BF677910.1	EST_HUMAN	602084730F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4249087 5'
7013	20139	33456	0.58	4.0E-85	AI628119.1	EST_HUMAN	ly84g01.x1 NCL CGAP_K0111 Homo sapiens cDNA clone IMAGE:2285808 3'
10937	23857		1.35	4.0E-85	BE079263.1	EST_HUMAN	RC1-BT0623-120200-011-c07 BT0623 Homo sapiens cDNA
12375	25772		1.31	4.0E-85	Z19867.1	EST_HUMAN	HSDEHGC03 Strategene cDNA library Human heart, cat#936208 Homo sapiens cDNA clone HEGC03
1302	14338	27301	1.02	3.0E-85	AF096157.1	NT	Homo sapiens protein phosphatase 2A BR gamma subunit gene, exon 6
1795	14824	27808	3.9	3.0E-85	T97495.1	EST_HUMAN	ye53q09.r1 Scanes fetal liver spleen 1NLS Homo sapiens cDNA clone IMAGE:121504 5'
4935	17951	30842	1.37	3.0E-85	11024635	NT	Homo sapiens F-box only protein 24 (FBXO24), mRNA
4935	17951	30843	1.37	3.0E-85	11024635	NT	Homo sapiens F-box only protein 24 (FBXO24), mRNA
5475	18576	31485	0.65	3.0E-85	11436001	NT	Homo sapiens lactoferrin rich protein (LPRP), mRNA
6204	19278	32511	0.66	3.0E-85	11422024	NT	Homo sapiens met proto-oncogene (hepatocyte growth factor receptor) (MET), mRNA
6257	19330	32560	5.69	3.0E-85	7662309	NT	Homo sapiens KIAA0793 gene product (KIAA0793), mRNA

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6257	19330	32561	5.69	3.0E-85	7662309	NT	Homo sapiens KIAA0793 gene product (KIAA0793), mRNA
7140	20116		7.73	3.0E-85	AJ404468.1	NT	Homo sapiens mRNA for dynein heavy chain (DNAH9 gene)
7626	20586	33949	0.88	3.0E-85	11416870	NT	Homo sapiens GTPase regulator associated with the focal adhesion kinase pp125(FAK); KIAA0621 protein (KIAA0621), mRNA
8204	21174	34584	1.64	3.0E-85	U44953.1	NT	Homo sapiens DENN mRNA, complete cds
8853	21820	35240	1.06	3.0E-85	11525829	NT	Homo sapiens CGI-81 protein (LOC51108), mRNA
9329	22284	35723	3.37	3.0E-85	11430889	NT	Homo sapiens phospholipase C, epsilon (PLGE), mRNA
9661	22818	36272	1.03	3.0E-85	11421422	NT	Homo sapiens small nuclear ribonucleoprotein polypeptide B' (SNRPB2), mRNA
9661	22818	36273	1.03	3.0E-85	11421422	NT	Homo sapiens small nuclear ribonucleoprotein polypeptide B' (SNRPB2), mRNA
10849	23769	37268	1.16	3.0E-85	AF098642.1	NT	Homo sapiens phospholipid scramblase mRNA, complete cds
11834	24717	38303	1.72	3.0E-85	5031660	NT	Homo sapiens EGF-like repeats and discoidin I-like domains 3 (EDIL3), mRNA
12919	25495		2.14	3.0E-85	11418177	NT	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
964	14016	26970	0.87	2.0E-85	7657268	NT	Homo sapiens KIAA0929 protein Mox2 interacting nuclear target (MINT) homolog (KIAA0929), mRNA
1041	14087	27039	2.52	2.0E-85	AF248540.1	NT	Homo sapiens intersectin 2 (SH3D1B) mRNA, complete cds
1418	14451	27424	8.49	2.0E-85	5174775	NT	Homo sapiens apolipoprotein C-II (APOC2) mRNA
1418	14451	27425	8.49	2.0E-85	5174775	NT	Homo sapiens apolipoprotein C-II (APOC2) mRNA
2239	15253	28277	1.8	2.0E-85	U10525.1	NT	Human DNA polymerase beta gene, exons 12 and 13
2834	14375		14.69	2.0E-85	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
3035	16093	29011	1.16	2.0E-85	M30938.1	NT	Human Ku (p70/p80) subunit mRNA, complete cds
4361	17388	30270	4.83	2.0E-85	4505880	NT	Homo sapiens plasminogen (PLG) mRNA
4948	17984	30854	0.93	2.0E-85	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
5178	18187	31064	1.37	2.0E-85	4502212	NT	Homo sapiens arginase, liver (ARG1) mRNA
9628	22572	36022	2.67	2.0E-85	A1760820.1	EST_HUMAN	w87h08.x1 NCL CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2398431 3' similar to contains element
10007	22634	36398	0.94	2.0E-85	A1914456.1	EST_HUMAN	MSR1 repetitive element
10925	23547	37048	1.31	2.0E-85	A1886384.1	EST_HUMAN	w448d03.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2331481 3'
2295	15307		2.51	1.0E-85	BE794306.1	EST_HUMAN	wm94d12.x1 NCL CGAP_U12 Homo sapiens cDNA clone IMAGE:2443607 3'
2403	15410	28434	6.6	1.0E-85	BE18392.1	EST_HUMAN	601591416F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3945818 5'
2403	15410	28435	6.6	1.0E-85	BE18392.1	EST_HUMAN	601462817F1 NIH_MGC_87 Homo sapiens cDNA clone IMAGE:3866021 5'
8091	21027	34426	0.52	1.0E-85	BE062951.1	EST_HUMAN	601462817F1 NIH_MGC_87 Homo sapiens cDNA clone IMAGE:3866021 5'
10140	23068	36542	2.41	1.0E-85	BE257917.1	EST_HUMAN	MRO-BT0264-221199-002-F03 BT0264 Homo sapiens cDNA
10571	23493	36985	0.53	1.0E-85	AW813525.1	EST_HUMAN	601109738F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:3350563 5'
11269	24221	37745	2.01	1.0E-85	AA778785.1	EST_HUMAN	RC1-ST0198-081099-011-d05 ST0198 Homo sapiens cDNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11269	24221	37746	2.01	1.0E-85	AA778785.1	EST_HUMAN	z45f03.s1 Soares fetal liver spleen 11NLS_S1 Homo sapiens cDNA clone IMAGE:453245 3'
11342	24292	37816	2.46	1.0E-85	BF311552.1	EST_HUMAN	601897003F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4126440 5'
11342	24292	37817	2.48	1.0E-85	BF311552.1	EST_HUMAN	601897003F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4126440 5'
12084	24937	38533	2.37	1.0E-85	AI198420.1	EST_HUMAN	q156a07.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:1860468 3'
12328	25288	31780	3.47	1.0E-85	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12583	25288	31780	3.37	1.0E-85	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
1426	14459		12.78	9.0E-86	BE274217.1	EST_HUMAN	601120778F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2967690 5'
6249	19322	32552	1.27	8.0E-86	11424140	NT	Homo sapiens similar to CDC28 protein kinase 1 (H. sapiens) (LOC63041), mRNA
12004	24881	38477	1.57	8.0E-86	4503224	NT	Homo sapiens cytochrome P450, subfamily 1F, polypeptide 1 (CYP2F1) mRNA
836	13989	28939	0.83	7.0E-86	AA860801.1	EST_HUMAN	q88f08.s1 Soares parathyroid tumor_NbHPA Homo sapiens cDNA clone IMAGE:1403559 3'
936	13989	28940	0.83	7.0E-86	AA860801.1	EST_HUMAN	q88f08.s1 Soares parathyroid tumor_NbHPA Homo sapiens cDNA clone IMAGE:1403559 3'
6320	19391	32631	0.85	7.0E-86	9666886	NT	Homo sapiens tumor endothelial marker 7 precursor (TEM7), mRNA
7189	18400	31248	6.12	7.0E-86	11421737	NT	Homo sapiens tumor endothelial marker 7 precursor (TEM7), mRNA
9096	22062	35487	4.12	7.0E-86	L38557.1	NT	Homo sapiens Tax1 (human T-cell leukemia virus type I) binding protein 1 (TAX1BP1), mRNA
10058	22985		1.49	7.0E-86	5453997	NT	Homo sapiens galactose oxidase (GALC) gene, exon 15
10116	23042	36522	1.67	7.0E-86	11526307	NT	Homo sapiens RAN binding protein 7 (RANBP7), mRNA
1297	14332	27293	3.29	6.0E-86	4505492	NT	Homo sapiens DiGeorge syndrome critical region gene 6 (DGCR6), mRNA
212	13312	26241	1.75	4.0E-86	BE547173.1	EST_HUMAN	Homo sapiens oxoglutarate dehydrogenase (lipoamide) (OGDH) mRNA
6151	19226	32455	10.99	4.0E-86	BE295843.1	EST_HUMAN	601072594F1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3458830 5'
11572	13312	26241	2.44	4.0E-86	BE547173.1	EST_HUMAN	601072594F1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3531953 5'
5677	18772	31944	6.84	3.0E-86	AW340946.1	EST_HUMAN	x292h12.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2871719 3'
8605	21573	34988	1.12	3.0E-86	AV722329.1	EST_HUMAN	AV722329 HTB Homo sapiens cDNA clone HTBBS04 5'
10581	23503	36995	3.26	3.0E-86	BE886479.1	EST_HUMAN	601509696F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3911303 5'
10581	23503	36996	3.26	3.0E-86	BE886479.1	EST_HUMAN	601509696F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3911303 5'
11784	23916	37437	5.6	3.0E-86	AI659240.1	EST_HUMAN	tu18b02.x1 NCI_CGAP_P128 Homo sapiens cDNA clone IMAGE:2251371 3'
11842	24725	38312	1.55	3.0E-86	AV690469.1	EST_HUMAN	AV690469 GKG Homo sapiens cDNA clone GKCBSE02 5'
12295	25784		1.35	3.0E-86	BE410354.1	EST_HUMAN	601302333F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3636753 5'
266	13362	26286	1.63	2.0E-86	AA306284.1	EST_HUMAN	EST177232 Jurkat T-cells Vi Homo sapiens cDNA 5' end
414	13487		2.72	2.0E-86	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21O003
1194	14234	27189	2.88	2.0E-86	N58977.1	EST_HUMAN	yz19a08.r1 Soares multiple sclerosis_2NBHMSP Homo sapiens cDNA clone IMAGE:283478 5'
2201	15216	28236	2.54	2.0E-86	9635487	NT	Human endogenous retrovirus, complete genome
2277	15290	28315	1.14	2.0E-86	AB033103.1	NT	Homo sapiens mRNA for KIAA1277 protein, partial cds
3426	16474	28393	1.47	2.0E-86	AW968142.1	EST_HUMAN	EST378215 IMAGE:28393, MAGI Homo sapiens cDNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3759	16800	29711	2.55	2.0E-86	AF156776.1	NT	Homo sapiens lysophosphatidic acid acyltransferase-delta (LPAAT-delta) mRNA, complete cds
3759	16800	29712	2.55	2.0E-86	AF156776.1	NT	Homo sapiens lysophosphatidic acid acyltransferase-delta (LPAAT-delta) mRNA, complete cds
4070	17106		3.01	2.0E-86	AW515742.1	EST_HUMAN	hd87g08.x1 NCL CGAP_GC08 Homo sapiens cDNA clone IMAGE:2916542 3'
4828	17845	30745	3.3	2.0E-86	AF056400.1	NT	Homo sapiens cAMP-specific phosphodiesterase 9A (PDE8A) mRNA, partial cds
5672	19057	32257	1.53	2.0E-86	Z16411.1	NT	H. sapiens mRNA encoding phospholipase c
5972	19057	32258	1.53	2.0E-86	Z16411.1	NT	H. sapiens mRNA encoding phospholipase c
7277	25672	33314	0.81	2.0E-86	11419429	NT	Homo sapiens similar to ectonucleotide pyrophosphatase/phosphodiesterase 3 (H. sapiens) (LOC83214), mRNA
8343	21312	34726	0.77	2.0E-86	U84744.1	NT	Human Chediak-Higashi syndrome protein short isoform (LYST) mRNA, complete cds
8861	21828		0.53	2.0E-86	AL163227.2	NT	Homo sapiens chromosome 21 segment HS21C027
8920	21886	35312	2.44	2.0E-86	11437135	NT	Homo sapiens butyrobetaine (gamme), 2-oxoglutarate dioxygenase (gamma-butyrobetaine hydroxylase) (BBOX), mRNA
8920	21886	35313	2.44	2.0E-86	11437135	NT	Homo sapiens butyrobetaine (gamme), 2-oxoglutarate dioxygenase (gamma-butyrobetaine hydroxylase) (BBOX), mRNA
9254	22220	35651	1.48	2.0E-86	10863976	NT	Homo sapiens phospholipid scramblase 1 (PLSCR1), mRNA
9673	22626	36080	2.12	2.0E-86	11422084	NT	Homo sapiens chromosome segregation 1 (yeast homolog)-like (GSE1L), mRNA
10814	23735	37237	2.88	2.0E-86	11545846	NT	Homo sapiens basic-helix-loop-helix-PAS protein (NPAS3), mRNA
10814	23735	37238	2.88	2.0E-86	11545846	NT	Homo sapiens basic-helix-loop-helix-PAS protein (NPAS3), mRNA
10869	23789	37289	1.63	2.0E-86	AB037832.1	NT	Homo sapiens basic-helix-loop-helix-PAS protein (NPAS3), mRNA
12732	25385	31750	2.82	2.0E-86	11418189	NT	Homo sapiens mRNA for KIAA1411 protein, partial cds
12901	25485		6.37	2.0E-86	AB011399.1	NT	Homo sapiens thyroid autoantigen 70kD (Ku antigen) (G22P1), mRNA
1601	14833	27609	1.28	1.0E-86	4826855	NT	Homo sapiens gene for AF-8, complete cds
3176	16231	28147	1.52	1.0E-86	5453649	NT	Homo sapiens NADH dehydrogenase (ubiquinone) Fe-S protein 1 (75kD) (NADH-coenzyme Q reductase) (NDUFS1) mRNA
3249	16304	29228	2.61	1.0E-86	L20492.1	NT	Homo sapiens fibulin 5 (FBLN5) mRNA
3307	16360	29279	2.18	1.0E-86	AL163209.2	NT	Human gamma-glutamyl transpeptidase mRNA, complete cds
3307	16360	29280	2.18	1.0E-86	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
3966	17006	29921	1.01	1.0E-86	7706161	NT	Homo sapiens chromosome 21 segment HS21C009
3966	17006	29922	1.01	1.0E-86	7706161	NT	Homo sapiens hypothetical protein (LOC51318), mRNA
4293	17322	30202	5.56	1.0E-86	AL163300.2	NT	Homo sapiens hypothetical protein (LOC51318), mRNA
4651	17672	30559	1.12	1.0E-86	4507334	NT	Homo sapiens chromosome 21 segment HS21C100
5632	18728	31889	1.44	1.0E-86	AL163284.2	NT	Homo sapiens synaptotagmin 1 (SYNJ1), mRNA
5430	18533		1.78	9.0E-87	AI150703.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C084 q577c09.x1 Soares_fetal_haert_NbHH19W Homo sapiens cDNA clone IMAGE:1706128 3' similar to SW:K1CJ_MOUSE P02535 KERATIN, TYPE I CYTOSKELETAL 10

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7681	20639	34001	1.73	9.0E-87	4757721	NT	Homo sapiens a disintegrin and metalloproteinase domain 22 (ADAM22), mRNA
7681	20639	34002	1.73	9.0E-87	4757721	NT	Homo sapiens a disintegrin and metalloproteinase domain 22 (ADAM22), mRNA
480	13552	26480	82.98	8.0E-87	X62245.1	NT	O. cuniculus mRNA for elongation factor 1 alpha
2304	15316	28336	3.11	7.0E-87	BF063211.1	EST_HUMAN	7h85f02.x1 NCI_CGAP_Co16 Homo sapiens cDNA clone IMAGE:3322779 3'
2304	15316	28337	3.11	7.0E-87	BF063211.1	EST_HUMAN	7h85f02.x1 NCI_CGAP_Co16 Homo sapiens cDNA clone IMAGE:3322779 3'
6540	19602	32864	1.01	7.0E-87	AW890336.1	EST_HUMAN	MRO-NT0039-020500-004-at11 NT0039 Homo sapiens cDNA
8531	21499	34915	2.59	7.0E-87	BF352776.1	EST_HUMAN	IL3-HT0619-060700-198.D10 HT0619 Homo sapiens cDNA
9809	21132	34535	0.66	7.0E-87	BE712961.1	EST_HUMAN	IL5-HT0702-160800-103-066 HT0702 Homo sapiens cDNA
10431	23353	36837	3.41	7.0E-87	AL043314.2	EST_HUMAN	DKFZp434N0323_11 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434N0323 5'
10431	23353	36838	3.41	7.0E-87	AL043314.2	EST_HUMAN	DKFZp434N0323_11 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434N0323 5'
10834	25703		0.48	7.0E-87	AI081565.1	EST_HUMAN	ox59h01.s1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:1660657 3'
11237	24190	37708	10.09	7.0E-87	K03002.1	NT	Human mRNA from chromosome 15 gene with homology to MHC-HLA-SB-1 Intron A
11237	24190	37709	10.09	7.0E-87	K03002.1	NT	Human mRNA from chromosome 15 gene with homology to MHC-HLA-SB-1 Intron A
3538	16594	29507	0.76	6.0E-87	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
5561	19621	32886	1.84	6.0E-87	AB029004.1	NT	Homo sapiens mRNA for KIAA1081 protein, partial cds
11079	24041		6.13	6.0E-87	11432444	NT	Homo sapiens similar to SET translocation (myeloid leukemia-associated) (H. sapiens) (LOC63102), mRNA
1162	14204	27157	1.86	5.0E-87	AA382811.1	EST_HUMAN	EST96094 Testis I Homo sapiens cDNA 5' end
12585	14204	27157	2	5.0E-87	AA382811.1	EST_HUMAN	EST96094 Testis I Homo sapiens cDNA 5' end
967	14019	26872	0.98	4.0E-87	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
1176	14217	27172	15.32	4.0E-87	AB037835.1	NT	Homo sapiens mRNA for KIAA1414 protein, partial cds
2045	15064	28084	1.49	4.0E-87	AB007825.1	NT	Homo sapiens mRNA for KIAA0456 protein, partial cds
3478	16524	29448	1.57	4.0E-87	5174574	NT	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (trithorax (Drosophila) homolog); translocated to, 4 (MLLT4) mRNA
5307	18310	31167	0.98	4.0E-87	4759073	NT	Homo sapiens small inducible cytokine subfamily A (Cys-Cys), member 16 (SCYA16) mRNA
5307	18310	31168	0.98	4.0E-87	4759073	NT	Homo sapiens small inducible cytokine subfamily A (Cys-Cys), member 16 (SCYA16) mRNA
5521	18620	31554	5.85	4.0E-87	O00321	SWISSPROT	ETS-RELATED PROTEIN 71 (ETS TRANSLLOCATION VARIANT 2)
5844	18934	32118	0.55	4.0E-87	U85429.1	NT	Human transcription factor NFATx3 mRNA, complete cds
6163	19238	32469	4.54	4.0E-87	BE247284.1	EST_HUMAN	TCBAP-1E4051 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project-T CBA Homo sapiens cDNA clone TCBAP4051
7933	20875	34264	0.5	4.0E-87	11425291	NT	Homo sapiens KIAA1072 protein (KIAA1072), mRNA
7933	20875	34265	0.5	4.0E-87	11425291	NT	Homo sapiens KIAA1072 protein (KIAA1072), mRNA
8050	20987	34383	0.61	4.0E-87	L48524.1	NT	Homo sapiens tuberin (TSC2) gene, exon 10
9583	22545	35996	0.47	4.0E-87	AF223470.1	NT	Homo sapiens KIAA0971-l protein (KIAA0971-l) mRNA, complete cds

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Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11500	24443	37894	5.12	4.0E-87	M06076.1	NT	Human von Willebrand factor pseudogene corresponding to exons 23 through 34
12678	25839	31428	1.47	4.0E-87	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12678	25839	31429	1.47	4.0E-87	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12825	25444		3.11	4.0E-87	11417812	NT	Homo sapiens purinergic receptor P2X-like 1, orphan receptor (P2RXL1), mRNA
2787	15778	28796	4.73	2.0E-87	4885420	NT	Homo sapiens high-mobility group (nonhistone chromosomal) protein 4 (HMG4), mRNA
2959	16017		0.79	2.0E-87	BF327920.1	EST_HUMAN	QV0-BN0148-050600-254-a03 BN0148 Homo sapiens cDNA
3798	16838	29745	0.9	2.0E-87	AU116935.1	EST_HUMAN	AU116935 HEMBA1 Homo sapiens cDNA clone HEMBA100307 5'
4951	17966	30856	1.64	2.0E-87	BF376311.1	EST_HUMAN	CMC-TN0038-T50900-552-h08 TN0038 Homo sapiens cDNA
4998	18013	30900	0.68	2.0E-87	BE175478.1	EST_HUMAN	RC5-HT0580-200300-031-G04 HT0580 Homo sapiens cDNA
5744	18838	32020	8.67	2.0E-87	BE734190.1	EST_HUMAN	601569041F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3843730 5'
5744	18838	32021	8.67	2.0E-87	BE734190.1	EST_HUMAN	601569041F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3843730 5'
6450	19525		3.73	2.0E-87	BE567183.1	EST_HUMAN	601341383F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3683348 5'
6857	19910	33205	1.12	2.0E-87	N48128.1	EST_HUMAN	W21607.r1 Soares fetal liver spleen 1NFS Homo sapiens cDNA clone IMAGE:243396 5'
6948	20172	33495	0.64	2.0E-87	AV654143.1	EST_HUMAN	AV654143 GLC Homo sapiens cDNA clone GLODSC04 3'
7379	20349	33700	1.31	2.0E-87	BE294432.1	EST_HUMAN	601176032F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531511 5'
7436	20403	33757	0.81	2.0E-87	11433049	NT	Homo sapiens hct domain and RLD 2 (HERC2), mRNA
7886	20644	34008	37.21	2.0E-87	N48128.1	EST_HUMAN	W21607.r1 Soares fetal liver spleen 1NFS Homo sapiens cDNA clone IMAGE:243396 5'
7951	20892	34284	36.03	2.0E-87	N48128.1	EST_HUMAN	W21607.r1 Soares fetal liver spleen 1NFS Homo sapiens cDNA clone IMAGE:243396 5'
8738	21706	35130	13.21	2.0E-87	X52861.1	NT	Human cyclophilin gene for cyclophilin (EC 5.2.1.8)
10144	23070		5.58	2.0E-87	BE531136.1	EST_HUMAN	601278315F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3610539 5'
1186	15818		3.71	1.0E-87	7705683	NT	Homo sapiens putative glycolipid transfer protein (LOC51054), mRNA
3723	16766	29677	4.15	1.0E-87	Y00052.1	NT	Human mRNA for T-cell cyclophilin
3746	16768	29700	2.03	1.0E-87	4758827	NT	Homo sapiens neurexin III (NRXN3), mRNA
5152	18162	31042	1.98	1.0E-87	U50949.1	NT	Rattus norvegicus taste bud receptor protein TB 641 (TB 641) gene, complete cds
6352	19421	32662	1.94	1.0E-87	AF073371.1	NT	Homo sapiens growth factor receptor-bound protein 10 (GRB10) gene, exon 8
6352	19421	32663	1.94	1.0E-87	AF073371.1	NT	Homo sapiens growth factor receptor-bound protein 10 (GRB10) gene, exon 8
7383	20353	33704	0.84	1.0E-87	AF039517.1	NT	Homo sapiens corticotropin-releasing factor type 1 receptor gene, exon 8
7383	20353	33705	0.84	1.0E-87	AF039517.1	NT	Homo sapiens corticotropin-releasing factor type 1 receptor gene, exon 8
7389	20358	33710	1.03	1.0E-87	4506786	NT	Homo sapiens IQ motif containing GTPase activating protein 1 (IQGAP1), mRNA
7628	20588	33951	1.17	1.0E-87	11431560	NT	Homo sapiens protein kinase C, beta 1 (PRKCB1), mRNA
7783	20736	34108	0.85	1.0E-87	4506786	NT	Homo sapiens IQ motif containing GTPase activating protein 1 (IQGAP1), mRNA
8068	21005	34403	0.54	1.0E-87	4506528	NT	Homo sapiens solute carrier family 22 (organic cation transporter), member 1-like (SLC22A1L), mRNA
8453	21422	34837	11.12	1.0E-87	AF214562.1	NT	Homo sapiens tracheal epithelium enriched protein (PLUNC) gene, complete cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9260	22226	35655	0.97	1.0E-87	AB022918.1	NT	Homo sapiens mRNA for alpha2,3-sialyltransferase ST3Gal VI, complete cds
9260	22226	35656	0.97	1.0E-87	AB022918.1	NT	Homo sapiens mRNA for alpha2,3-sialyltransferase ST3Gal VI, complete cds
9391	22918	36384	6.68	1.0E-87	BE818183.1	EST_HUMAN	RC8-BN0276-050700-012-E02 BN0276 Homo sapiens cDNA
9391	22918	36385	6.68	1.0E-87	BE818183.1	EST_HUMAN	RC8-BN0276-050700-012-E02 BN0276 Homo sapiens cDNA
10739	23661	37155	3.11	1.0E-87	M34426.1	NT	Human L-plastin mRNA, 5' end
11084	24045	37597	1.78	1.0E-87	5729867	NT	Homo sapiens hect domain and RLD 2 (HERC2), mRNA
12675	25978		1.46	1.0E-87	7657632	NT	Homo sapiens sulfotransferase-related protein (SULTX3), mRNA
1108	14152	27102	6.48	9.0E-88	AF167465.1	NT	Homo sapiens double stranded RNA activated protein kinase (PKR) gene, exon 12
1351	14366	27355	2.56	9.0E-88	AB037820.1	NT	Homo sapiens mRNA for KIAA1399 protein, partial cds
1351	14366	27356	2.56	9.0E-88	AB037820.1	NT	Homo sapiens mRNA for KIAA1399 protein, partial cds
2130	15147	28162	1.14	9.0E-88	7661701	NT	Homo sapiens DKFZP586P1522 protein (DKFZP586P1522), mRNA
3642	16685	29601	0.99	9.0E-88	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
4298	17327	30207	3.27	9.0E-88	X91929.1	NT	H. sapiens ECE-1 gene (exon 9)
4298	17327	30208	3.27	9.0E-88	X91929.1	NT	H. sapiens ECE-1 gene (exon 9)
5038	18051	30931	1	9.0E-88	AB026898.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
9375	22340	35771	3.69	6.0E-88	AF003528.1	NT	Homo sapiens X-linked anhidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
1845	14871		1.13	5.0E-88	7661887	NT	Homo sapiens KIAA0063 gene product (KIAA0063), mRNA
2647	15644	28669	5.45	5.0E-88	N89399.1	EST_HUMAN	K9719F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA clone K9719 5' similar to ZINC FINGER PROTEIN HZF1
3013	16071	28991	0.91	5.0E-88	AF114488.1	NT	Homo sapiens intersecin short isoform (ITSN) mRNA, complete cds
3023	16080	29002	0.77	5.0E-88	AF114488.1	NT	Homo sapiens intersecin short isoform (ITSN) mRNA, complete cds
3023	16080	29003	0.77	5.0E-88	AF114488.1	NT	Homo sapiens intersecin short isoform (ITSN) mRNA, complete cds
3400	18449		2.75	5.0E-88	AI693217.1	EST_HUMAN	wd68h08.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2336799 3' similar to contains Alu repetitive element/contains element MER22 MER22 repetitive element
6936	20160	33481	3.32	5.0E-88	H10932.1	EST_HUMAN	Y008b10.r1 Scores infant brain 1N1B Homo sapiens cDNA clone IMAGE:47129 5'
8261	21230	34639	2.44	5.0E-88	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
9666	22619	36070	0.57	5.0E-88	BF680206.1	EST_HUMAN	602154958F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4295775 5'
12435	14871		1.73	5.0E-88	7661887	NT	Homo sapiens KIAA0063 gene product (KIAA0063), mRNA
1332	14367	27336	1.49	4.0E-88	BF091229.1	EST_HUMAN	PM1-TN0028-050900-004-f10 TN0028 Homo sapiens cDNA
1332	14367	27337	1.49	4.0E-88	BF091229.1	EST_HUMAN	PM1-TN0028-050900-004-f10 TN0028 Homo sapiens cDNA
5185	18194	31089	0.81	4.0E-88	BF670714.1	EST_HUMAN	602149762F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4280975 5'
7454	20420	33775	1.35	4.0E-88	11416585	NT	Homo sapiens transforming growth factor, beta-induced, 68kD (TGFB1), mRNA

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11818	24701	38282	3.12	4.0E-88	7681947	NT	Homo sapiens KIAA0152 gene product (KIAA0152), mRNA
11818	24701	38283	3.12	4.0E-88	7681947	NT	Homo sapiens KIAA0152 gene product (KIAA0152), mRNA
733	13794	26731	0.85	3.0E-88	11545800	NT	Homo sapiens hypothetical protein FLJ21834 (FLJ21834), mRNA
1829	14858		1.78	3.0E-88	4509020	NT	Homo sapiens zinc finger protein 259 (ZNF259) mRNA
2958	18016	28944	2.51	3.0E-88	N68851.1	EST_HUMAN	zz48f12.s1 Soares fetal liver spleen 1N1LS Homo sapiens cDNA clone IMAGE:285823 3'
4269	17298	30175	0.93	3.0E-88	4501912	NT	Homo sapiens a disintegrin and metalloproteinase domain 23 (ADAM23) mRNA
4269	17298	30176	0.93	3.0E-88	4501912	NT	Homo sapiens a disintegrin and metalloproteinase domain 23 (ADAM23) mRNA
4504	17529		3.64	3.0E-88	11429300	NT	Homo sapiens hypothetical protein FLJ20220 (FLJ20220), mRNA
5372	18477	31350	2.45	3.0E-88	11429567	NT	Homo sapiens valosin-containing protein (VCP), mRNA
5668	18761	31930	4.05	3.0E-88	9888888	NT	Homo sapiens polycythemia rubra vera 1; cell surface receptor (PRV1), mRNA
5789	18881	32063	3.62	3.0E-88	11420697	NT	Homo sapiens v-rel simian leukemia viral oncogene homolog A (ras related) (RALA), mRNA
6285	19357	32593	0.95	3.0E-88	11417370	NT	Homo sapiens interleukin 13 (IL13), mRNA
6553	25862	32877	0.77	3.0E-88	11419210	NT	Homo sapiens activator of S phase kinase (ASK), mRNA
6553	25862	32878	0.77	3.0E-88	11419210	NT	Homo sapiens activator of S phase kinase (ASK), mRNA
7267	20002	33302	15.04	3.0E-88	AF279265.1	NT	Homo sapiens putative anion transporter 1 mRNA, complete cds
7788	20741	34114	6.35	3.0E-88	11436400	NT	Homo sapiens retinoblastoma-binding protein 2 (RBBP2), mRNA
8253	21222	34632	10.99	3.0E-88	11421726	NT	Homo sapiens growth differentiation factor 5 (cartilage-derived morphogenetic protein-1) (GDF5), mRNA
8538	21506	34923	1.28	3.0E-88	AF034374.1	NT	Homo sapiens myoblast fusion factor biosynthesis protein A and myoblast fusion factor biosynthesis protein C mRNA, complete cds
9789	21112	34512	2.14	3.0E-88	11526262	NT	Homo sapiens v-ets avian erythroblastosis virus E26 oncogene related (ERG), mRNA
10288	23213	36696	0.74	3.0E-88	AB015228.1	NT	Homo sapiens mRNA for RALDH2-T, complete cds
10288	23213	36697	0.74	3.0E-88	AB015228.1	NT	Homo sapiens mRNA for RALDH2-T, complete cds
10316	23240	36721	0.99	3.0E-88	11439065	NT	Homo sapiens acyl-Coenzyme A dehydrogenase family, member 8 (ACAD8), mRNA
12086	24958	38554	3.65	3.0E-88	4957502	NT	Homo sapiens cubilin (intrinsc factor-cobalamin receptor) (CUBN) mRNA
12421	25191		7.12	3.0E-88	11417974	NT	Homo sapiens transferrin receptor-like 2 (TFR2), mRNA
1037	14083	27033	61.67	2.0E-88	7305198	NT	Homo sapiens Caldesin, presenilin-binding protein, EF hand transcription factor (CSEIN), mRNA
1628	14661	27637	1.66	2.0E-88	AF246219.1	NT	Homo sapiens SNARE protein kinase SNARE mRNA, complete cds
1765	14794	27779	4.07	2.0E-88	AF246219.1	NT	Homo sapiens SNARE protein kinase SNARE mRNA, complete cds
4455	17481	30369	1.86	2.0E-88	5031666	NT	Homo sapiens dyx11c1, axonemal, light polypeptide 4 (DNAL4), mRNA
6016	19099	32300	5.17	1.0E-88	AW139565.1	EST_HUMAN	U1-H-B11-aca-d-04-0-U1.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2718750 3'
6016	19099	32301	5.17	1.0E-88	AW139565.1	EST_HUMAN	U1-H-B11-aca-d-04-0-U1.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2718750 3'
6802	19856	33141	23.82	1.0E-88	AB007877.1	NT	Homo sapiens KIAA0417 mRNA, complete cds
6802	19856	33142	23.82	1.0E-88	AB007877.1	NT	Homo sapiens KIAA0417 mRNA, complete cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7329	20300	33644	1.29	1.0E-88	AI969034.1	EST_HUMAN	wg70a12.x1 NCI_CGAP_GC8 Homo sapiens cDNA clone IMAGE:2476608 3'
7390	20359	33711	3.91	1.0E-88	AA488981.1	EST_HUMAN	aa54a11.s1 NCI_CGAP_GC81 Homo sapiens cDNA clone IMAGE:824732 3' similar to WP.B0272.2
8476	21445	34862	0.47	1.0E-88	AF135183.1	NT	CE00851;
9597	22601	36050	1.09	1.0E-88	AA190368.1	EST_HUMAN	Homo sapiens Recq helicase 5 (RECQ5) gene, alternative splice products, complete cds
9638	22865	36327	2.73	1.0E-88	AL043314.2	EST_HUMAN	zp87c02.r1 Stragene HeLa cell s3 937216 Homo sapiens cDNA clone IMAGE:627170 5' similar to SW.POL.1 HUMAN P10266 RETROVIRUS-RELATED POLYPROTEIN;
11773	23928	37449	3.86	1.0E-88	AA991479.1	EST_HUMAN	DKFZp434N0323_r1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434N0323 5'
12640	25324	37774	1.91	1.0E-88	AL163246.2	NT	os91g03.s1 NCI_CGAP_GC3 Homo sapiens cDNA clone IMAGE:1612766 3' similar to gb.M18342
11298	24248	37774	3.66	9.0E-89	11421238	NT	HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEINS C1/C2 (HUMAN);
2745	15738	28755	1.74	8.0E-89	BE311557.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C046
7118	20052	33358	1.21	8.0E-89	11421514	NT	Homo sapiens transgene 2 (TAGLN2), mRNA
433	13507	26440	1.21	7.0E-89	7657213	NT	601142409F1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:3506186 5'
433	13507	26441	1.21	7.0E-89	7657213	NT	Homo sapiens similar to sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3A (H. sapiens) (LOC63232), mRNA
4919	17836	30828	2.95	7.0E-89	4557390	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
4967	17982	30872	4.02	7.0E-89	AL045748.1	EST_HUMAN	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
5505	18605	31534	1.22	7.0E-89	X99832.1	NT	Homo sapiens complement component 8, beta polypeptide (C8B) mRNA
5505	18605	31535	1.22	7.0E-89	X99832.1	NT	DKFZp434E246_r1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434E246 5'
6477	19542	32789	0.77	7.0E-89	7549808	NT	H. sapiens CLN3 gene, complete CDS
6477	19542	32790	0.77	7.0E-89	7549808	NT	H. sapiens CLN3 gene, complete CDS
7741	20695	34060	1.42	7.0E-89	11420754	NT	Homo sapiens plasmin 3 (T isoform) (PLS3), mRNA
8211	21180	34589	0.57	7.0E-89	11417118	NT	Homo sapiens plasmin 3 (T isoform) (PLS3), mRNA
8211	21180	34590	0.57	7.0E-89	11417118	NT	Homo sapiens actin related protein 2/3 complex, subunit 1A (41 kD) (ARPC1A), mRNA
8823	21790	35212	3.88	7.0E-89	11417118	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
10897	23817	37324	1.25	7.0E-89	J02923.1	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
10897	23817	37325	1.25	7.0E-89	X62048.1	NT	Human 65-kilodalton phosphoprotein (p65) mRNA, complete cds
10913	23833	37347	1.11	7.0E-89	X62048.1	NT	H. sapiens Wee1 hu gene
10913	23833	37348	1.11	7.0E-89	AB020630.1	NT	H. sapiens Wee1 hu gene
1025	14071	27022	1.23	6.0E-89	AB020630.1	NT	Homo sapiens mRNA for KIAA0823 protein, partial cds
2223	15237	28261	1.17	6.0E-89	5803114	NT	Homo sapiens mRNA for KIAA0823 protein, partial cds
2440	15447	28464	0.99	6.0E-89	4506124	NT	Homo sapiens inner membrane protein, mitochondrial (mitofilin) (IMMT), mRNA
2440	15447	28465	0.99	6.0E-89	4507788	NT	Homo sapiens serine/threonine-protein kinase PRP4 homolog (PRP4) mRNA
2440	15447	28466	0.99	6.0E-89	4507788	NT	Homo sapiens ubiquitin-conjugating enzyme E2L 3 (UBE2L3) mRNA
2440	15447	28466	0.99	6.0E-89	4507788	NT	Homo sapiens ubiquitin-conjugating enzyme E2L 3 (UBE2L3) mRNA

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4667	17688	30573	4.04	6.0E-89	AB007868.2	NT	Homo sapiens mRNA for KIAA0406 protein, partial cds
4667	17688	30574	4.04	6.0E-89	AB007866.2	NT	Homo sapiens mRNA for KIAA0406 protein, partial cds
5111	18121	30995	3.41	5.0E-89	BE244323.1	EST_HUMAN	TCBAP2E0383 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens cDNA clone TCBAP0383
5111	18121	30996	3.41	5.0E-89	BE244323.1	EST_HUMAN	TCBAP2E0383 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens cDNA clone TCBAP0383
7842	20789	34164	0.84	4.0E-89	BE762749.1	EST_HUMAN	QV3-NT0022-080600-219-g03 NT0022 Homo sapiens cDNA
2898	15947	28863	1.1	3.0E-89	AW976181.1	EST_HUMAN	EST388290 MAGe resequences, MAGN Homo sapiens cDNA
7347	20317	33683	1.25	3.0E-89	AI217359.1	EST_HUMAN	qh17b06.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1844915 3'
11151	24111	37636	1.79	3.0E-89	N57357.1	EST_HUMAN	yu68611.1 Soares_placenta_8to9weeks_2NHP8t69W Homo sapiens cDNA clone IMAGE:259148 5' similar to SW-PI4K HUMAN P42356 PHOSPHATIDYLINOSITOL 4-KINASE ALPHA ;
127	13481	26416	0.68	2.0E-89	7706670	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
127	13481	26417	0.68	2.0E-89	7706670	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
408	13481	26417	0.64	2.0E-89	7706670	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
408	13481	26417	0.64	2.0E-89	7706670	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
531	13602	26520	0.93	2.0E-89	AB037763.1	NT	Homo sapiens mRNA for KIAA1342 protein, partial cds
2892	15951	28887	1.71	2.0E-89	AI222095.1	EST_HUMAN	qg96c08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1843022 3' similar to gb.J04131 GAMMA-GLUTAMYLTRANSFERASE 1 PRECURSOR (HUMAN);contains Alu repetitive element;
3565	16611	29532	0.65	2.0E-89	AA759149.1	EST_HUMAN	ah70e03.s1 Soares_testis_NHT Homo sapiens cDNA clone 1320988 3'
3565	16611	29533	0.65	2.0E-89	AA759149.1	EST_HUMAN	ah70e03.s1 Soares_testis_NHT Homo sapiens cDNA clone 1320988 3'
4169	17200	30086	1.41	2.0E-89	AF089897.1	NT	Homo sapiens topoisomerase-related function protein (TRF4-2) mRNA, partial cds
4190	17211	30098	4.98	2.0E-89	X58742.1	NT	H.sapiens HCK gene for tyrosine kinase (PTK), exons 10-11
4180	17211	30099	4.98	2.0E-89	X58742.1	NT	H.sapiens HCK gene for tyrosine kinase (PTK), exons 10-11
4376	17404	30284	0.83	2.0E-89	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
4524	17549	30437	1.1	2.0E-89	AJ007378.1	NT	Homo sapiens GGT gene, exon 5
5416	18519		1.39	2.0E-89	BE541744.1	EST_HUMAN	607065996F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3452423 5'
5558	18655	31600	2.77	2.0E-89	AB007546.1	NT	Homo sapiens gene for LECT2, complete cds
5888	18973	32167	1.69	2.0E-89	U03985.1	NT	Human N-ethylmaleimide-sensitive factor mRNA, partial cds
6335	19404	32644	0.67	2.0E-89	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
7931	20874	34263	4.07	2.0E-89	U81004.1	NT	Human GT24 (GT24) mRNA, partial cds
8266	21235	34646	2.9	2.0E-89	11428801	NT	Homo sapiens solute carrier family 24 (sodium/potassium/calcium exchanger), member 2 (SLC24A2), mRNA

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Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8760	21727	35149	0.94	2.0E-89	AJ245503.1	NT	Homo sapiens partial mRNA for PEX5 related protein
9608	22812	36065	0.67	2.0E-89	AB037754.1	NT	Homo sapiens mRNA for KIAA1333 protein, partial cds
10169	23094	36572	1.11	2.0E-89	AF170814.1	NT	Homo sapiens CaBP5 (CABP5) gene, exon 5
10169	23094	36573	1.11	2.0E-89	AF170814.1	NT	Homo sapiens CaBP5 (CABP5) gene, exon 5
11701	24666	38243	2.63	2.0E-89	11434411	NT	Homo sapiens integrin, alpha 3 (antigen CD49C, alpha 3 subunit of VLA-3 receptor) (ITGA3), mRNA
11896	24777	38363	3.64	2.0E-89	11433673	NT	Homo sapiens cell adhesion molecule with homology to L1CAM (close homologue of L1) (CHL1), mRNA
12026	24902	38497	1.63	2.0E-89	U10592.1	NT	Human MAGE-7 antigen (MAGE7) pseudogene, complete cds
11903	24784	38372	5.65	1.0E-89	BF196052.1	EST_HUMAN	h81d09.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3134897 3' similar to TR:O54778 O54778 SOLUTE CARRIER FAMILY 22-LIKE 2 PROTEIN;
11903	24784	38373	5.65	1.0E-89	BF196052.1	EST_HUMAN	h81d09.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3134897 3' similar to TR:O54778 O54778 SOLUTE CARRIER FAMILY 22-LIKE 2 PROTEIN;
8569	21537	34957	1.77	9.0E-90	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
8569	21537	34958	1.77	9.0E-90	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
1064	14110	27059	1.93	8.0E-90	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
1065	14110	27059	2.43	8.0E-90	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
1333	15864	27338	4.85	8.0E-90	BE670561.1	EST_HUMAN	7e36f08.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3284583 3'
1333	15864	27339	4.85	8.0E-90	BE670561.1	EST_HUMAN	7e36f08.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3284583 3'
8906	21872	35298	0.78	8.0E-90	BE177830.1	EST_HUMAN	RC1-H10598-120400-022-b08 HT0598 Homo sapiens cDNA
11374	24321	37848	1.88	8.0E-90	AA705222.1	EST_HUMAN	z82g10.s1 Soares_fetal_liver_spleen_INFLS_S1 Homo sapiens cDNA clone IMAGE:461442 3'
11374	24321	37849	1.88	8.0E-90	AA705222.1	EST_HUMAN	z82g10.s1 Soares_fetal_liver_spleen_INFLS_S1 Homo sapiens cDNA clone IMAGE:461442 3'
837	13894		3.74	7.0E-90	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
8767	21734		2.07	7.0E-90	AA782977.1	EST_HUMAN	af63d08.s1 Soares_testis_NHT Homo sapiens cDNA clone 1375503 3'
9317	22282	35712	1.82	7.0E-90	BE962525.2	EST_HUMAN	601655837R1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3865824 3'
9317	22282	35713	1.82	7.0E-90	BE962525.2	EST_HUMAN	601655837R1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3865824 3'
10495	23417	36915	2.08	7.0E-90	H68849.1	EST_HUMAN	SP-C1TC_HUMAN P11586 C-1-TETRAHYDROFOLATE SYNTHASE, CYTOPLASMIC;
10495	23417	36916	2.06	7.0E-90	H68849.1	EST_HUMAN	SP-C1TC_HUMAN P11586 C-1-TETRAHYDROFOLATE SYNTHASE, CYTOPLASMIC;
10821	23742	37243	0.58	7.0E-90	BF526089.1	EST_HUMAN	yr86e04.s1 Soares_fetal_liver_spleen_INFLS_Homo sapiens cDNA clone IMAGE:212190 3' similar to
3081	16138	29049	0.98	6.0E-90	X91926.1	NT	SP-C1TC_HUMAN P11586 C-1-TETRAHYDROFOLATE SYNTHASE, CYTOPLASMIC;
3081	16138	29050	0.98	6.0E-90	X91926.1	NT	SP-C1TC_HUMAN P11586 C-1-TETRAHYDROFOLATE SYNTHASE, CYTOPLASMIC;

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Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4254	17283	30164	9.77	6.0E-90	8922398	NT	Homo sapiens hypothetical protein FLJ10388 (FLJ10388), mRNA
4264	17283	30165	9.77	6.0E-90	8922398	NT	Homo sapiens hypothetical protein FLJ10388 (FLJ10388), mRNA
6097	19176	32393	3.07	6.0E-90	U77700.1	NT	Homo sapiens HsGCN1 mRNA, partial cds
6097	19176	32394	3.07	6.0E-90	U77700.1	NT	Homo sapiens HsGCN1 mRNA, partial cds
8670	21638	35061	3.16	6.0E-90	4504794	NT	Homo sapiens inositol 1,4,5-triphosphate receptor, type 3 (ITPR3) mRNA
8670	21638	35062	3.16	6.0E-90	4504794	NT	Homo sapiens inositol 1,4,5-triphosphate receptor, type 3 (ITPR3) mRNA
156	13259		25.61	5.0E-90	AB035344.1	NT	Homo sapiens TCL6 gene, exon 1-10b
1197	14237	27192	1.84	5.0E-90	U80226.1	NT	Human gamma-aminobutyric acid transaminase mRNA, partial cds
1836	14863	27860	1.33	5.0E-90	AI222095.1	EST_HUMAN	q996c08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1843022 3' similar to gb.J04131 GAMMA-GLUTAMYL-TRANSPEPTIDASE 1 PRECURSOR (HUMAN); contains Alu repetitive element
1836	14863	27860	1.33	5.0E-90	AI222095.1	EST_HUMAN	q996c08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1843022 3' similar to gb.J04131 GAMMA-GLUTAMYL-TRANSPEPTIDASE 1 PRECURSOR (HUMAN); contains Alu repetitive element
2562	15563	28982	2.8	5.0E-90	AF114487.1	NT	Homo sapiens intersectin long isoform (ITSN) mRNA, complete cds
4571	17593	30487	1.32	5.0E-90	4506354	NT	Homo sapiens pregnancy-zone protein (PZP) mRNA
4593	17814	30508	0.7	5.0E-90	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
5672	18767	31939	2.66	5.0E-90	Z16411.1	NT	H. sapiens mRNA encoding phospholipase c
5690	18786		0.61	5.0E-90	AF008915.1	NT	Homo sapiens EVI5 homolog mRNA, complete cds
5777	18869	32052	1.34	5.0E-90	AB015617.1	NT	Homo sapiens ELKS mRNA, complete cds
5860	18767	31939	2.22	5.0E-90	Z16411.1	NT	H. sapiens mRNA encoding phospholipase c
6894	19946	33242	0.73	5.0E-90	9910365	NT	Homo sapiens Carbonic anhydrase-related protein 10 (LOC56834), mRNA
6894	19946	33243	0.73	5.0E-90	9910365	NT	Homo sapiens Carbonic anhydrase-related protein 10 (LOC56834), mRNA
7423	20390	33741	2.09	5.0E-90	AF113708.1	NT	Homo sapiens angiotensin 4 (ANG4) mRNA, partial cds
7423	20390	33742	2.09	5.0E-90	AF113708.1	NT	Homo sapiens angiotensin 4 (ANG4) mRNA, partial cds
7813	20762	34138	8.82	5.0E-90	4557258	NT	Homo sapiens adenylate cyclase 9 (ADCY9) mRNA
8636	21604	35028	4.98	5.0E-90	11345483	NT	Homo sapiens hypothetical protein FLJ13222 (FLJ13222), mRNA
							Homo sapiens similar to eukaryotic pyrophosphatase/phosphodiesterase 3 (H. sapiens) (LOC63214), mRNA
10039	22968	36433	1.13	5.0E-90	11419429	NT	mRNA
10644	23566	37063	0.74	5.0E-90	AF123303.1	NT	Homo sapiens calcium-binding transporter mRNA, partial cds
10777	23698	37196	0.53	5.0E-90	11417118	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
10777	23698	37197	0.53	5.0E-90	11417118	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
10813	23734	37236	5.86	5.0E-90	11433721	NT	Homo sapiens ATPase, aminophospholipid transporter-like, Class I, type 8A, member 2 (ATP8A2), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10871	23791	37291	0.67	5.0E-90	7662051	NT	Homo sapiens KIAA0317 gene product (KIAA0317), mRNA
10871	23791	37292	0.67	5.0E-90	7662051	NT	Homo sapiens KIAA0317 gene product (KIAA0317), mRNA
12872	25506		2.89	5.0E-90	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
12920	25496		4.66	5.0E-90	AI523366.1	EST_HUMAN	at78h05.x1 Barstead aorta HPLR86 Homo sapiens cDNA clone IMAGE:2126761 3'
302	13396	26323	2.82	4.0E-90	AF231920.1	NT	Homo sapiens chromosome 21 unknown mRNA
302	13396	26324	2.82	4.0E-90	AF231920.1	NT	Homo sapiens chromosome 21 unknown mRNA
1088	14132	27084	4.74	4.0E-90	4505316	NT	Homo sapiens myosin phosphatase, target subunit 1 (MYPT1), mRNA
1688	14728	27711	8.84	4.0E-90	X86033.1	NT	H sapiens gene encoding discoidin receptor tyrosine kinase, exon 16
4686	17707	30600	6.15	4.0E-90	D87675.1	NT	Homo sapiens mRNA for KIAA1244 protein, complete cds
4835	17852	30751	2.4	4.0E-90	AB033070.1	NT	Homo sapiens mRNA for KIAA1244 protein, partial cds
4856	17873	30761	1.96	4.0E-90	M95967.1	NT	Human prothormone converting enzyme (NEC2) gene, exon 8
12134	25003	36610	1.75	4.0E-90	D31124.1	EST_HUMAN	HUM12582 Human fetal lung Homo sapiens cDNA 5'
8185	21155	34563	1.72	3.0E-90	BF516168.1	EST_HUMAN	UIH-BW1-ary-b-04-Q-U1.s1 NCJ_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3083839 3'
8185	21155	34564	1.72	3.0E-90	BF516168.1	EST_HUMAN	UIH-BW1-ary-b-04-Q-U1.s1 NCJ_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3083839 3'
11951	24830	38426	87.56	3.0E-90	BE563833.1	EST_HUMAN	601335244F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3689147 5'
215	13315	26243	5.41	2.0E-90	BE537913.1	EST_HUMAN	601067378F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3453834 5'
1171	14218	27173	46.4	2.0E-90	5031748	NT	Homo sapiens high-mobility group (nonhistone chromosomal) protein 17 (HMG17), mRNA
1177	14218	27174	46.4	2.0E-90	5031748	NT	Homo sapiens high-mobility group (nonhistone chromosomal) protein 17 (HMG17), mRNA
3859	16898	29801	2.03	2.0E-90	AI138213.1	EST_HUMAN	qc54c02.x1 Soares_placenta_8to9weeks_2NbHP8to9W Homo sapiens cDNA clone IMAGE:1713410 3'
4714	17734	30627	1.17	2.0E-90	AB006627.1	NT	similar to SW:OLF3_MOUSE_P23275_OLFACTORY RECEPTOR OR3 ;
4947	17963	30853	9.22	2.0E-90	5729855	NT	Homo sapiens mRNA for KIAA0289 gene, partial cds
5870	18959	32147	0.57	2.0E-90	11525901	NT	Homo sapiens GRB2-related adaptor protein (GRAP) mRNA
5870	18959	32148	0.57	2.0E-90	11525901	NT	Homo sapiens Rap2 interacting protein 8 (RPIP8), mRNA
5879	18968	32159	4.7	2.0E-90	AW672686.1	EST_HUMAN	Homo sapiens Rap2 interacting protein 8 (RPIP8), mRNA
10149	23075	36550	8.23	2.0E-90	11427320	NT	be49d05.y6 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2899881 5' similar to TR:O75208 O75208 HYPOTHETICAL 35.5 KD PROTEIN ;
10149	23075	36551	8.23	2.0E-90	11427320	NT	Homo sapiens similar to laminin receptor 1 (67kD, ribosomal protein SA) (H. sapiens) (LOC63484), mRNA
10319	23243	36722	1.27	2.0E-90	AU118985.1	EST_HUMAN	Homo sapiens similar to laminin receptor 1 (67kD, ribosomal protein SA) (H. sapiens) (LOC63484), mRNA
10319	23243	36723	1.27	2.0E-90	AU118985.1	EST_HUMAN	AU118985 HEMBA1 Homo sapiens cDNA clone HEMBA1004795 5'
11798	23953	37475	5.5	2.0E-90	11024711	NT	AU118985 HEMBA1 Homo sapiens cDNA clone HEMBA1004795 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
276	13372	26300	3.99	1.0E-90	4502168	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
374	15812	26389	1.13	1.0E-90	AF231920.1	NT	Homo sapiens chromosome 21 unknown mRNA
375	15812	26389	2.04	1.0E-90	AF231920.1	NT	Homo sapiens chromosome 21 unknown mRNA
696	13758	26689	2.55	1.0E-90	AJ237589.1	NT	Homo sapiens mRNA for T-box transcription factor (TBX20 gene), partial
696	13758	26690	2.55	1.0E-90	AJ237589.1	NT	Homo sapiens mRNA for T-box transcription factor (TBX20 gene), partial
731	13792	26728	17.02	1.0E-90	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
731	13792	26729	17.02	1.0E-90	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
1112	14156		2.23	1.0E-90	4507828	NT	Homo sapiens Kruppel-like factor 7 (ubiquitous) (KLF7), mRNA
1309	14345	27310	2.99	1.0E-90	AF096154.1	NT	Homo sapiens protein phosphatase 2A BR gamma subunit gene, exon 3
1309	14345	27311	2.99	1.0E-90	AF096154.1	NT	Homo sapiens protein phosphatase 2A BR gamma subunit gene, exon 3
1678	14708		1.79	1.0E-90	BE379884.1	EST_HUMAN	601159563F2 NIH_MGC 53 Homo sapiens cDNA clone IMAGE:3511118 5'
1918	14942	27638	2.77	1.0E-90	11420514	NT	Homo sapiens similar to SALL1 (sal (Drosophila)-like (LOC57167), mRNA
2866	15926	28846	7.85	1.0E-90	6005720	NT	Homo sapiens chromosome 8 open reading frame 2 (C8ORF2), mRNA
3865	16904	29810	0.72	1.0E-90	AB020710.1	NT	Homo sapiens mRNA for KIAA0903 protein, partial cds
3865	16904	29811	0.72	1.0E-90	AB020710.1	NT	Homo sapiens soluble interleukin 1 receptor accessory protein (L1RAP) gene, exon 8, alternative exons 9 and complete cds, alternatively spliced
4453	17479	30367	1.17	1.0E-90	AF167340.1	NT	Homo sapiens mRNA for KIAA1399 protein, partial cds
5270	18277	31140	1.7	1.0E-90	AB037820.1	NT	Homo sapiens mRNA for KIAA1399 protein, partial cds
5270	18277	31141	1.7	1.0E-90	AB037820.1	NT	Homo sapiens mRNA for KIAA0633 protein, partial cds
5758	18851	32031	1.76	1.0E-90	AB014533.1	NT	Homo sapiens KIAA0623 gene product (KIAA0623), mRNA
5936	19022	32216	0.99	1.0E-90	11426910	NT	Human retina-derived POU-domain factor-1 mRNA, complete cds
7276	20011	33313	0.87	1.0E-90	U91634.1	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA
7525	20489	33851	0.6	1.0E-90	6006002	NT	Homo sapiens solute carrier family 1 (high affinity aspartate/glutamate transporter), member 6 (SLC1A6), mRNA
7834	20876	34266	2.63	1.0E-90	11428758	NT	Homo sapiens brefeldin A-inhibited guanine nucleotide-exchange protein 2 (BIG2), mRNA
9173	22139	35565	3.98	1.0E-90	11422086	NT	Homo sapiens SNCA isoform (SNCA) gene, complete cds, alternatively spliced
9648	22692		1.08	1.0E-90	AF163864.1	NT	Homo sapiens CGI-15 protein (LOC51006), mRNA
9670	22623	36075	1.38	1.0E-90	11422109	NT	Homo sapiens CGI-15 protein (LOC51006), mRNA
9670	22623	36076	1.38	1.0E-90	11422109	NT	Homo sapiens CGI-15 protein (LOC51006), mRNA
10960	23910	37424	0.53	1.0E-90	X55545.1	NT	H. sapiens cDNA for CREB protein
10990	23910	37425	0.53	1.0E-90	X55545.1	NT	H. sapiens cDNA for CREB protein
11021	23988	37513	2.13	1.0E-90	R25686.1	EST_HUMAN	y844d11.2 Soares infant brain YNIB Homo sapiens cDNA clone IMAGE:35477 5'
4224	17263	30140	6.09	8.0E-91	D12234.1	EST_HUMAN	HUM0005381 Liver HepG2 cell line. Homo sapiens cDNA clone s381 3'

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Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8649	21617	36039	4.36	7.0E-91	11419234	NT	Homo sapiens maktin, ring finger protein, 1 (MKRN1), mRNA
10663	23585	37083	0.67	7.0E-91	A1904151.1	EST_HUMAN	GM-BT043-090299-075 BT043 Homo sapiens cDNA
3488	16534	29459	1.71	5.0E-91	AA702794.1	EST_HUMAN	Z90804.s1 Soares_fetal_liver_spleen_INFLS_S1 Homo sapiens cDNA clone IMAGE:448015 3'
4544	17667	30454	1.05	5.0E-91	AU143539.1	EST_HUMAN	AU143539 Y79AA1 Homo sapiens cDNA clone Y79AA1002087 5'
4544	17667	30455	1.05	5.0E-91	AU143539.1	EST_HUMAN	AU143539 Y79AA1 Homo sapiens cDNA clone Y79AA1002087 5'
6770	19825	33108	1.19	5.0E-91	A1878995.1	EST_HUMAN	au49f09.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2518121 3' similar to SW:ASPG_FLAME Q47898 N4-(BETA-N-ACETYLGLUCOSAMINYL)-L-ASPARAGINASE PRECURSOR;
8547	21516	34933	1.85	5.0E-91	BF314882.1	EST_HUMAN	601901624F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4130933 5'
9113	22079	35506	1.28	5.0E-91	AV649878.1	EST_HUMAN	AV649878 GLC Homo sapiens cDNA clone GLOBYF08 3'
9113	22079	35507	1.28	5.0E-91	AV649878.1	EST_HUMAN	AV649878 GLC Homo sapiens cDNA clone GLOBYF08 3'
12892	25479		2.26	5.0E-91	AI193566.1	EST_HUMAN	qe70f11.x1 Soares_fetal_lung_NbHL19W Homo sapiens cDNA clone IMAGE:1744385 3' similar to contains MIR.b2 MIR MIR repetitive element;
3215	16270	29192	1.41	4.0E-91	AF156776.1	NT	Homo sapiens lysophosphatidic acid acyltransferase-delta (LPAAT-delta) mRNA, complete cds
3215	16270	29193	1.41	4.0E-91	AF156776.1	NT	Homo sapiens lysophosphatidic acid acyltransferase-delta (LPAAT-delta) mRNA, complete cds
11276	24228	37755	3.24	4.0E-91	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
12377	25159	31811	1.55	4.0E-91	M77894.1	EST_HUMAN	EST01679 Hippocampus, Striatum (cat. #936205) Homo sapiens cDNA clone HHQMC60 similar to Retrovirus-related gag polyprotein
12377	25159	31858	1.55	4.0E-91	M77894.1	EST_HUMAN	EST01679 Hippocampus, Striatum (cat. #936205) Homo sapiens cDNA clone HHQMC60 similar to Retrovirus-related gag polyprotein
1621	14654	27630	5.97	3.0E-91	11430193	NT	Homo sapiens solute carrier family 4, anion exchanger, member 3 (SLC4A3), mRNA
1621	14654	27631	5.97	3.0E-91	11430193	NT	Homo sapiens solute carrier family 4, anion exchanger, member 3 (SLC4A3), mRNA
3350	18401	29323	1.76	3.0E-91	AL163283.2	NT	Homo sapiens chromosome 21 segment HS21C083
3478	16522	29445	3.84	3.0E-91	AB033104.1	NT	Homo sapiens mRNA for KIAA1278 protein, partial cds
3478	16522	29446	3.84	3.0E-91	AB033104.1	NT	Homo sapiens mRNA for KIAA1278 protein, partial cds
3802	16842	29750	1.47	3.0E-91	AF084530.1	NT	Homo sapiens cyclin-D binding Myb-like protein mRNA, complete cds
4621	17842	30530	4.36	3.0E-91	M30938.1	NT	Human Ku (p70p80) subunit mRNA, complete cds
5016	18030	30915	1.3	3.0E-91	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
5016	18030	30916	1.3	3.0E-91	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
5770	18862	32041	1.43	3.0E-91	11434964	NT	Homo sapiens epididymal secretory protein (19.5kD) (HE1), mRNA
6437	19503		2.97	3.0E-91	4502740	NT	Homo sapiens cyclin-dependent kinase 6 (CDK6) mRNA
6735	19791	33071	3.34	3.0E-91	11497611	NT	Homo sapiens gamma-aminobutyric acid (GABA) B receptor, 1 (GABBR1), transcript variant 2, mRNA

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6735	19791	33072	3.34	3.0E-91	11497811	NT	Homo sapiens gamma-aminobutyric acid (GABA) B receptor, 1 (GABBR1), transcript variant 2, mRNA
7800	20843	34226	4.07	3.0E-91	U86959.1	NT	Human L-type calcium channel beta-1 subunit (CACNLB1) gene, exons 10 and 11
7800	20843	34227	4.07	3.0E-91	U86959.1	NT	Human L-type calcium channel beta-1 subunit (CACNLB1) gene, exons 10 and 11
8278	21247	34659	0.44	3.0E-91	6601589	NT	Homo sapiens ankyrin-like with transmembrane domains 1 (ANKTM1), mRNA
9123	22089	35517	2.51	3.0E-91	D18494.1	NT	Human mRNA for very low density lipoprotein receptor, complete cds
9643	22587	36036	0.8	3.0E-91	AB011166.1	NT	Homo sapiens mRNA for KIAA0594 protein, partial cds
11235	24188	37707	2.53	3.0E-91	AB032179.2	NT	Homo sapiens EHM2 mRNA, complete cds
11536	24477	38026	2.3	3.0E-91	AB029003.1	NT	Homo sapiens mRNA for KIAA1080 protein, partial cds
11536	24477	38027	2.3	3.0E-91	AB029003.1	NT	Homo sapiens mRNA for KIAA1080 protein, partial cds
12620	25314	31784	1.48	3.0E-91	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
12650	18335	31174	3.88	3.0E-91	AF169555.1	NT	Homo sapiens beta-ureidopropionase (BUP1) gene, exon 8
12950	18335	31175	3.88	3.0E-91	AF169555.1	NT	Homo sapiens beta-ureidopropionase (BUP1) gene, exon 8
50	13170	26078	2.39	1.0E-91	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
1250	14286	27252	7.11	1.0E-91	AW449746.1	EST_HUMAN	UIH-B13-aks-d-01-Q-U1 s1 NCJ CGAP_Sub5 Homo sapiens cDNA clone IMAGE:2735280 3'
5487	18587	31498	0.73	1.0E-91	11434402	NT	Homo sapiens hypothetical protein PRO1855 (PRO1855), mRNA
7020	20146	33484	1.9	1.0E-91	BF348182.1	EST_HUMAN	602022088F1 NCJ CGAP_Bm87 Homo sapiens cDNA clone IMAGE:4157804 5'
7020	20146	33485	1.9	1.0E-91	BF348182.1	EST_HUMAN	602022088F1 NCJ CGAP_Bm87 Homo sapiens cDNA clone IMAGE:4157804 5'
8161	21099	34498	0.59	1.0E-91	M20453.1	NT	Human nucleus-enclosed mitochondrial aldehyde dehydrogenase 2 (ALDH2) gene, exon 10
1246	14283	27246	6.04	9.0E-92	AJ001889.1	NT	Homo sapiens NKGD2 gene, exon 10
1246	14283	27247	6.04	9.0E-92	AJ001889.1	NT	Homo sapiens NKGD2 gene, exon 10
5538	18635	31576	2.94	9.0E-92	J03007.1	NT	Human Na ⁺ /K ⁺ ATPase alpha-subunit mRNA, partial cds
5866	18781	31953	2.18	9.0E-92	11427149	NT	Homo sapiens hypothetical protein FLJ20260 (FLJ20260), mRNA
8598	19658	32928	3.86	9.0E-92	AF310105.1	NT	Homo sapiens NALP1 mRNA, complete cds
8190	21160	34598	0.47	9.0E-92	AJ250568.1	NT	Homo sapiens partial TM4SF2 gene for tetraspanin protein, exon 5
8190	21160	34570	0.47	9.0E-92	AJ250568.1	NT	Homo sapiens partial TM4SF2 gene for tetraspanin protein, exon 5
8717	21685	35112	1.73	9.0E-92	AB040945.1	NT	Homo sapiens mRNA for KIAA1512 protein, partial cds
8717	21685	35113	1.73	9.0E-92	AB040945.1	NT	Homo sapiens mRNA for KIAA1512 protein, partial cds
9626	22573	36023	1.69	9.0E-92	11422086	NT	Homo sapiens brefeldin A-inhibited guanine nucleotide-exchange protein 2 (BIG2), mRNA
92	13208	26132	3.78	8.0E-92	W26367.1	EST_HUMAN	2663 Human retina cDNA randomly primed sublibrary Homo sapiens cDNA
285	13380	26308	4.52	8.0E-92	BE386363.1	EST_HUMAN	601273513F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3814867 5'
1838	14865	27863	1.06	8.0E-92	11434722	NT	Homo sapiens diacylglycerol kinase, gamma (DGKG), mRNA
1838	14865	27864	1.06	8.0E-92	11434722	NT	Homo sapiens diacylglycerol kinase, gamma (DGKG), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5140	18149	31028	0.7	8.0E-92	AW157571.1	EST_HUMAN	au83h08.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2782911 3' similar to
5466	18568	31478	0.84	8.0E-92	AB046820.1	NT	TR:O60302 O60302 KIAA0555 PROTEIN. contains element MER22 repetitive element ;
							Homo sapiens mRNA for KIAA1600 protein, partial cds
5576	18672	31635	0.81	8.0E-92	AF264717.1	NT	Homo sapiens FYVE domain-containing dual specificity protein phosphatase FYVE-DSP2 mRNA, complete cds
6697	19754	33031	1.19	8.0E-92	AJ000979.1	NT	Homo sapiens MCP-4 gene
6701	19758	33036	0.79	8.0E-92	AF179428.1	NT	Homo sapiens DNA polymerase zeta catalytic subunit variant 1 (REV3L) mRNA, complete cds
8154	21092	34491	1.16	8.0E-92	AF251025.2	NT	Homo sapiens double FYVE-containing protein 1 mRNA, complete cds
8428	21397		0.56	8.0E-92	11416961	NT	Homo sapiens ALM-1 protein (LOC51151), mRNA
8768	21735	35155	3.52	8.0E-92	L04193.1	NT	Human lens membrane protein (mp19) gene, exon 11
8768	21735	35156	3.52	8.0E-92	L04193.1	NT	Human lens membrane protein (mp19) gene, exon 11
8869	21836	35258	0.66	8.0E-92	11426569	NT	Homo sapiens transcription termination factor, RNA polymerase II (TTF2), mRNA
9417	22382	35920	2.48	8.0E-92	AB014511.1	NT	Homo sapiens mRNA for KIAA0611 protein, partial cds
10386	23308	36786	1.86	8.0E-92	Y13829.1	NT	Homo sapiens mRNA for MBNL1 protein
11155	24114	37640	3.34	8.0E-92	AF074393.1	NT	Homo sapiens nuclear mitogen- and stress-activated protein kinase-1 (MSK1) mRNA, complete cds
11688	24654	38233	1.72	8.0E-92	4503340	NT	Homo sapiens dihydropyrimidinase S-succinyltransferase (E2 component of 2-oxo-glutarate complex) (DLST) mRNA
27	13147	26046	1.69	7.0E-92	AB031007.1	NT	Homo sapiens DNA, MHC class I region, 7.1 ancestral haplotype
238	15836	26262	0.89	7.0E-92	AB018301.1	NT	Homo sapiens mRNA for KIAA0758 protein, partial cds
238	15836	26263	0.89	7.0E-92	AB018301.1	NT	Homo sapiens mRNA for KIAA0758 protein, partial cds
583	13680		1.22	7.0E-92	AF007822.1	NT	Homo sapiens cytoplasmic Sepsinase truncated isoform mRNA, complete cds
1285	14320	27283	1.14	7.0E-92	4502384	NT	Homo sapiens B-cell CLL/lymphoma 7b (BCL7B) mRNA
2197	15212	28230	3.62	7.0E-92	5031570	NT	Homo sapiens ARP2 (actin-related protein 2, yeast) homolog (ACTR2), mRNA
2197	15212	28231	3.62	7.0E-92	5031570	NT	Homo sapiens ARP2 (actin-related protein 2, yeast) homolog (ACTR2), mRNA
2570	15571	28591	1.27	7.0E-92	AF167706.1	NT	Homo sapiens cysteine-rich repeat-containing protein S52 precursor, mRNA, complete cds
2735	15729	28743	2.96	7.0E-92	6005738	NT	Homo sapiens NRAS-related gene (D1S155E), mRNA
2763	15755	28776	1.31	7.0E-92	AB031007.1	NT	Homo sapiens DNA, MHC class I region, 7.1 ancestral haplotype
3356	18314	29327	0.97	7.0E-92	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
3356	18314	29328	0.97	7.0E-92	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
4617	17638	30528	1.44	7.0E-92	S71824.1	NT	N-CAM=145 kda neural cell adhesion molecule [human, small cell lung cancer cell line OS2-R, mRNA, 2960 nt]
4817	17638	30529	1.44	7.0E-92	S71824.1	NT	N-CAM=145 kda neural cell adhesion molecule [human, small cell lung cancer cell line OS2-R, mRNA, 2960 nt]

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5040	18053	30932	0.91	7.0E-02	AL163281.2	NT	Homo sapiens chromosome 21 segment HS21C081
5333	18439	31191	5.67	7.0E-02	AA446208.1	EST_HUMAN	z666d12.r1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:781175 5'
1591	14823		1.08	5.0E-02	BE390882.1	EST_HUMAN	601283012F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3605018 5'
9847	22783		0.42	5.0E-02	W27668.1	EST_HUMAN	36a7 Human retina cDNA randomly primed sublibrary Homo sapiens cDNA
2776	15768	28788	2.03	3.0E-02	BE908714.1	EST_HUMAN	601501242F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3902939 5'
5976	19061	32282	4.55	3.0E-02	AA378338.1	EST_HUMAN	EST191020 Synovial sarcoma Homo sapiens cDNA 5' end similar to ribosomal protein S13
11116	24076	37599	5.32	3.0E-02	X15804.1	NT	Human mRNA for alpha-actinin
11116	24076	37600	5.32	3.0E-02	X15804.1	NT	Human mRNA for alpha-actinin
28	13148	26047	1.09	2.0E-02	4501898	NT	Homo sapiens actinin A receptor, type IIB (ACVR2B) mRNA
180	13280	26205	3.9	2.0E-02	11422946	NT	Homo sapiens hypothetical protein dJ462023.2 (DJ462023.2), mRNA
180	13280	26206	3.9	2.0E-02	11422946	NT	Homo sapiens hypothetical protein dJ462023.2 (DJ462023.2), mRNA
750	13811	26753	1.25	2.0E-02	BE289190.1	EST_HUMAN	601118337F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3028304 5'
750	13811	26754	1.25	2.0E-02	BE289190.1	EST_HUMAN	601118337F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3028304 5'
1727	14757		1.4	2.0E-02	S78653.1	NT	mtg=mas-related [human, Genomic, 2416 nt]
1953	14976	27976	1.73	2.0E-02	AI81819.1	EST_HUMAN	wk27407 x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2413549 3' similar to TR:Q12844
1953	14976	27977	1.73	2.0E-02	AI81819.1	EST_HUMAN	Q12844 BREAKPOINT CLUSTER REGION PROTEIN :
2084	15082	28101	6.36	2.0E-02	4506960	NT	wk27407 x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2413549 3' similar to TR:Q12844
2688	15685	28684	21.32	2.0E-02	6912457	NT	Q12844 BREAKPOINT CLUSTER REGION PROTEIN :
3627	16670	29582	1.17	2.0E-02	AF231919.1	NT	Homo sapiens syndecan 4 (amphiglycan, ryudocan) (SDC4) mRNA
3627	16670	29583	1.17	2.0E-02	AF231919.1	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
3627	16670	29583	1.17	2.0E-02	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
3698	16741	29654	5.32	2.0E-02	5803180	NT	Homo sapiens chromosome 21 unknown mRNA
4318	17347	30231	1.4	2.0E-02	M10976.1	NT	Homo sapiens stress-induced-phosphoprotein 1 (Hsp70/Hsp90-organizing protein) (STIP1), mRNA
5029	18043		2.37	2.0E-02	AL040437.1	EST_HUMAN	Human endogenous retroviral DNA (4-1), complete proviral segment
5853	18944	32129	0.53	2.0E-02	AF016535.1	NT	DKFZp434C0414.1_1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434C0414 5'
6434	19500		13.83	2.0E-02	4504756	NT	Homo sapiens P-glycoprotein (mdr1) mRNA, complete cds
6768	19822	33104	2.24	2.0E-02	AB028991.1	NT	Homo sapiens integrin, alpha L (antigen CD11A (p180), lymphocyte function-associated antigen 1; alpha polypeptide) (ITGAL), mRNA
7701	20659		0.81	2.0E-02	U87780.1	NT	Homo sapiens mRNA for KIAA1068 protein, partial cds
7730	20859		0.71	2.0E-02	U87780.1	NT	Human NPY Y1-like receptor pseudogene mRNA, complete cds
9207	22173	35604	1.91	2.0E-02	AW340174.1	EST_HUMAN	Human NPY Y1-like receptor pseudogene mRNA, complete cds
							hd02h02.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2808371 3' similar to TR:O02711
							O02711 PRO-POL-DUTPASE POLYPROTEIN :

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11112	24072	37594	4.68	2.0E-92	11434900	NT	Homo sapiens thyroid stimulating hormone receptor (TSHR), mRNA
11369	24335	37864	4.54	2.0E-92	5803103	NT	Homo sapiens male-specific lethal-3 (Drosophila)-like 1 (MSL3L1), mRNA
12716	25370	31773	3.75	2.0E-92	AB029016.1	NT	Homo sapiens mRNA for KIAA1093 protein, partial cds
12983	15665	28684	2.95	2.0E-92	6912457	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
1867	14892	27890	1.77	1.0E-92	R78078.1	EST_HUMAN	y80e08.r1 Scores placenta Nb2HP Homo sapiens cDNA clone IMAGE:145574 5'
1867	14892	27891	1.77	1.0E-92	R78078.1	EST_HUMAN	y80e08.r1 Scores placenta Nb2HP Homo sapiens cDNA clone IMAGE:145574 5'
2087	15104	28122	34.86	1.0E-92	4506688	NT	Homo sapiens ribosomal protein, large, P1 (RPLP1) mRNA
8590	21558	34974	0.77	1.0E-92	BE43625.1	EST_HUMAN	HTM1-288F HTM1 Homo sapiens cDNA
							tg01b02.x1 NCI_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:2107467 3' similar to SW:PTNF_HUMAN
9519	22482	35927	3.43	1.0E-92	AI380356.1	EST_HUMAN	Q16825 PROTEIN-TYROSINE PHOSPHATASE D1, contains Alu repetitive element; contains element MER17 repetitive element;
9519	22482	35928	3.43	1.0E-92	AI380356.1	EST_HUMAN	Q16825 PROTEIN-TYROSINE PHOSPHATASE D1, contains Alu repetitive element; contains element MER17 repetitive element;
2044	15063	28083	2.77	9.0E-93	AU121681.1	EST_HUMAN	AU121681 MAMMA1 Homo sapiens cDNA clone MAMMA1000738 5'
2058	15077		11.43	9.0E-93	AA318723.1	EST_HUMAN	EST188414 HCC cell line (metastasis to liver in mouse) II Homo sapiens cDNA 5' end similar to ribosomal protein L29
2655	15652		1.44	9.0E-93	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
3628	16671	29584	1.44	9.0E-93	BE388571.1	EST_HUMAN	601281867F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3603832 5'
11959	24838		35.01	9.0E-93	11418526	NT	Homo sapiens ribosomal protein L10a (RPL10A), mRNA
6585	19645	32913	0.52	8.0E-93	AW014042.1	EST_HUMAN	UI-H-B10-aah-h-06-O-UI.s1 NCI_CGAP_Sub1 Homo sapiens cDNA clone IMAGE:2709371 3'
6585	19645	32914	0.52	8.0E-93	AW014042.1	EST_HUMAN	UI-H-B10-aah-h-06-O-UI.s1 NCI_CGAP_Sub1 Homo sapiens cDNA clone IMAGE:2709371 3'
6744	19799	33079	3.82	8.0E-93	BF036364.1	EST_HUMAN	601460521F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:38683908 5'
246	13343	26268	9.15	7.0E-93	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
3091	16149	29063	1.56	6.0E-93	11526175	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1), mRNA
6096	19175	32391	0.59	6.0E-93	11450204	NT	Homo sapiens hypothetical protein FLJ10897 (FLJ10897), mRNA
6096	19175	32392	0.59	6.0E-93	11450204	NT	Homo sapiens hypothetical protein FLJ10897 (FLJ10897), mRNA
6838	18891	33186	0.99	6.0E-93	AB033083.1	NT	Homo sapiens mRNA for KIAA1267 protein, partial cds
7101	20035	33338	1.14	6.0E-93	AF095771.1	NT	Homo sapiens PTH-responsive osteosarcoma B1 protein (B1) mRNA, complete cds
1381	14415	27385	3.77	5.0E-93	AB014511.1	NT	Homo sapiens mRNA for KIAA0611 protein, partial cds
1406	14439	27408	4.78	5.0E-93	AI674184.1	EST_HUMAN	wc09c08.x1 NCI_CGAP_P128 Homo sapiens cDNA clone IMAGE:2314670 3'
1406	14439	27409	4.78	5.0E-93	AI674184.1	EST_HUMAN	wc09c08.x1 NCI_CGAP_P128 Homo sapiens cDNA clone IMAGE:2314670 3'
1471	14504		1.02	5.0E-93	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001

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3247	16302	29226	3.91	5.0E-93	X04201.1	NT	Human skeletal muscle 1.3 kb mRNA for tropomyosin
5897	18884	32175	0.9	5.0E-93	M22878.1	NT	Human somatic cytochrome c (HC1) processed pseudogene, complete cds
6230	19304		1.22	5.0E-93	AF045555.1	NT	Homo sapiens wbscr1 (WBSOR1) and wbscr6 (WBSOR6) genes, complete cds, alternatively spliced and replication factor C subunit 2 (RFC2) gene, complete cds
7882	20921	34312	3.32	5.0E-93	AF067136.1	NT	Homo sapiens protein phosphatase-1 regulatory subunit 7 (PPP1R7) gene, exon 11, complete cds and alternatively spliced product
8852	21918	35343	0.56	5.0E-93	4557528	NT	Homo sapiens discs, large (Drosophila) homolog 2 (chapsyn-110) (DLG2) mRNA
8952	21918	35344	0.56	5.0E-93	4557526	NT	Homo sapiens discs, large (Drosophila) homolog 2 (chapsyn-110) (DLG2) mRNA
9881	22808	36373	2.06	5.0E-93	AF274863.1	NT	Homo sapiens secretory pathway component Sec31B-1 mRNA, alternatively spliced, complete cds
10168	23091	36569	1.33	5.0E-93	5032156	NT	Homo sapiens TAR (HIV) RNA-binding protein 1 (TARBP1) mRNA
10430	23352	36838	1.59	5.0E-93	AF069313.2	NT	Homo sapiens WSB1 protein (WSB1) mRNA, complete cds
11174	24131	37661	2.48	5.0E-93	11439599	NT	Homo sapiens nucleobindin 2 (NUCB2), mRNA
12627	25622	31877	2.65	5.0E-93	11417877	NT	Homo sapiens gamma-glutamyltransferase 1 (GGT1), mRNA
13096	25622	31877	1.32	5.0E-93	11417877	NT	Homo sapiens gamma-glutamyltransferase 1 (GGT1), mRNA
88	13204		7.06	4.0E-93	AA459933.1	EST_HUMAN	z50e09.s1 Soares, Testis, NHT Homo sapiens cDNA clone IMAGE:796688 3' similar to SW:CLPA_RAT
445	13518	26450	1.25	4.0E-93	4557879	NT	P37397 CALPONIN, ACIDIC ISOFORM;
445	13518	26451	1.25	4.0E-93	4557879	NT	Homo sapiens Interferon gamma receptor 1 (IFNGR1) mRNA
773	13832	26777	1.38	4.0E-93	7657454	NT	Homo sapiens Interferon gamma receptor 1 (IFNGR1) mRNA
773	13832	26778	1.38	4.0E-93	7657454	NT	Homo sapiens pascadillo (zebrafish) homolog 1, containing BRCT domain (PES1), mRNA
1187	14227	27183	1.62	4.0E-93	8923658	NT	Homo sapiens pascadillo (zebrafish) homolog 1, containing BRCT domain (PES1), mRNA
1994	15015	28022	4.21	4.0E-93	AF047677.1	NT	Homo sapiens hypodermal protein FLJ20731 (FLJ20731), mRNA
2615	15613	28638	1.08	4.0E-93	7656972	NT	Homo sapiens dystrophin (DMD) gene, deletion breakpoints 1-3 in intron 5
3580	16625	29546	0.94	4.0E-93	7705396	NT	Homo sapiens TNF-inducible protein CG12-1 (CG12-1), mRNA
4078	17113	30009	2.01	4.0E-93	4504654	NT	Homo sapiens tumor antigen SLP-8p (HCC8), mRNA
5058	16625	29546	0.93	4.0E-93	7705396	NT	Homo sapiens Interleukin 18 receptor 1 (IL18R1) mRNA
5727	18621	32001	4.28	4.0E-93	T48864.1	EST_HUMAN	Homo sapiens tumor antigen SLP-8p (HCC8), mRNA
11468	24411	37860	13.22	4.0E-93	AV692051.1	EST_HUMAN	y694c12.1 Stratagene liver (#937224) Homo sapiens cDNA clone IMAGE:78838 5' similar to similar to SP:A44391 A44391 SERUM RESPONSE ELEMENT-BINDING PROTEIN SRE-ZBP - HUMAN ,
3665	16708	29622	9.21	3.0E-93	BF690630.1	EST_HUMAN	AV692051 GKC Homo sapiens cDNA clone GKCDRF07 5'
3665	16708	29623	9.21	3.0E-93	BF690630.1	EST_HUMAN	602246554F1 NIH_MGC_62 Homo sapiens cDNA clone IMAGE:4332036 5'
4263	17292		1.23	3.0E-93	AF225996.1	NT	602246554F1 NIH_MGC_62 Homo sapiens cDNA clone IMAGE:4332036 5'

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Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5881	18970	32161	0.56	3.0E-93	AI553853.1	EST_HUMAN	In29g03.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2169076 3'
5881	18970	32162	0.56	3.0E-93	AI553853.1	EST_HUMAN	In29g03.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2169076 3'
6715	19771	33051	1.55	3.0E-93	11426182	NT	Homo sapiens GON5 (general control of amino-acid synthesis, yeast, homolog)-like 2 (GON5L2), mRNA
11152	24112	37637	3.04	3.0E-93	AI824829.1	EST_HUMAN	U022005.x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2304489 3'
192	13293	26219	8.05	2.0E-93	AB015610.1	NT	Chlorococcus ethiops mRNA for ribosomal protein S4X, complete cds
192	13293	26220	8.05	2.0E-93	AB015610.1	NT	Chlorococcus ethiops mRNA for ribosomal protein S4X, complete cds
323	13415	26340	12.88	2.0E-93	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
324	13415	26340	8.91	2.0E-93	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
2140	15157	28173	1.15	2.0E-93	U40763.1	NT	Human Clk-associated RS cyclophilin CARS-Cyp mRNA, complete cds
2494	15497	28523	2.03	2.0E-93	BE252982.1	EST_HUMAN	601117586F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3358220 5'
5491	18591	31502	5.04	2.0E-93	AW984385.1	EST_HUMAN	EST376458 MAGE resequences, MAGH Homo sapiens cDNA
5502	18602	31531	0.78	2.0E-93	4758153	NT	Homo sapiens deafness, autosomal dominant 5 (DFNA5), mRNA
5621	18717		0.63	2.0E-93	BF351459.1	EST_HUMAN	QV34HT0513-290300-128-H04 HT0513 Homo sapiens cDNA
5720	18814	31993	1.08	2.0E-93	11430039	NT	Homo sapiens hypothetical protein (LOC51318), mRNA
5734	18828	32006	0.7	2.0E-93	U74313.1	EST_HUMAN	HSU74313 Human chromosome 14 Homo sapiens cDNA clone 1-86
6841	19894		1.06	2.0E-93	AW502002.1	EST_HUMAN	U1HF-BN0-aks-g-09-0-UI.1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078329 5'
12520	25251		3.14	2.0E-93	AA126735.1	EST_HUMAN	Z19c10.s1 Soares_pregnant_uterus.NbHPU Homo sapiens cDNA clone IMAGE:503346 3'
12601	25303		2.69	2.0E-93	L41825.1	NT	Homo sapiens CYP17 gene, 5' end
12853	25461		3.49	2.0E-93	BF035327.1	EST_HUMAN	601458531F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3862086 5'
103	13219	26143	1.82	1.0E-93	AF238997.1	NT	Homo sapiens CTR1 pseudogene
103	13219	26144	1.82	1.0E-93	AF238997.1	NT	Homo sapiens CTR1 pseudogene
519	13590	26510	16.6	1.0E-93	7657016	NT	Homo sapiens hypothetical protein (D3J32B19.C1.1), mRNA
602	13689	26583	5.09	1.0E-93	AI148755.1	EST_HUMAN	Y84508.x1 NCI_CGAP_CL1.1 Homo sapiens cDNA clone IMAGE:1672503 3' similar to TR:Q62384 Q62384
873	13929	26887	4.11	1.0E-93	D87675.1	NT	ZINC FINGER PROTEIN.1
1241	14277	27237	8.86	1.0E-93	8923270	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
1241	14277	27238	8.85	1.0E-93	8923270	NT	Homo sapiens hypothetical protein FLJ20291 (FLJ20291), mRNA
2344	15354	28375	1.27	1.0E-93	AF231981.1	NT	Homo sapiens long chain polyunsaturated fatty acid elongation enzyme (HELO1) mRNA, complete cds
2471	15475	28499	9.52	1.0E-93	AF050068.1	NT	Homo sapiens MHC class 1 region
2833	14334	27296	2.05	1.0E-93	BE297369.1	EST_HUMAN	601177666F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3532965 5'
2833	14334	27297	2.05	1.0E-93	BE297369.1	EST_HUMAN	601177666F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3532965 5'
2945	16003	28928	2.18	1.0E-93	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3229	16284		1.3	1.0E-93	AF231981.1	NT	Homo sapiens long chain polyunsaturated fatty acid elongation enzyme (HELO1) mRNA, complete cds
4460	17486	30373	1.99	1.0E-93	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
5646	18742	31907	1.66	1.0E-93	U78509.1	NT	Homo sapiens glucocorticoid receptor (GRL) gene, intron D, exon 5, and intron E
5646	18742	31908	1.66	1.0E-93	U78509.1	NT	Homo sapiens glucocorticoid receptor (GRL) gene, intron D, exon 5, and intron E
5859	18949	32135	1.02	1.0E-93	AF227138.1	NT	Homo sapiens candidate taste receptor 12R14 gene, complete cds
6022	19105	32308	10.63	1.0E-93	4557792	NT	Homo sapiens neurofibromin 1 (neurofibromatosis, von Recklinghausen disease, Watson disease) (NF1) mRNA
6321	19392	32633	0.91	1.0E-93	7662241	NT	Homo sapiens KIAA0872 gene product (KIAA0872), mRNA
6359	20184	33507	2.08	1.0E-93	11431580	NT	Homo sapiens protein kinase C, beta 1 (PRKCB1), mRNA
7462	20428	33785	3.07	1.0E-93	D42072.1	NT	Human mRNA for NF1 N-isoform-exon11, complete cds
8903	21571	34987	1.97	1.0E-93	A8037832.1	NT	Homo sapiens mRNA for KIAA1411 protein, partial cds
8988	21854	35274	1.12	1.0E-93	Y10183.1	NT	H. sapiens mRNA for MEMD protein
8988	21962	35387	1.29	1.0E-93	AF182032.1	NT	Homo sapiens protein kinase inhibitor gamma (PKI) mRNA, complete cds
9379	22344	35775	0.47	1.0E-93	A8023228.1	NT	Homo sapiens mRNA for KIAA1011 protein, partial cds
9379	22344	35776	0.47	1.0E-93	A8023228.1	NT	Homo sapiens mRNA for KIAA1011 protein, partial cds
9807	21130	34533	1.86	1.0E-93	A8040918.1	NT	Homo sapiens mRNA for KIAA1485 protein, partial cds
9811	21134	34537	1.04	1.0E-93	AF091395.1	NT	Homo sapiens Trio isoform mRNA, complete cds
9946	22873	36333	4.08	1.0E-93	X13474.1	NT	Human PreA4 gene for Alzheimer's disease A4 amyloid protein precursor (exon 9)
9946	22873	36334	4.08	1.0E-93	X13474.1	NT	Human PreA4 gene for Alzheimer's disease A4 amyloid protein precursor (exon 9)
10083	23010	36482	0.71	1.0E-93	AL049801.1	NT	Novel human gene mapping to chromosome 13, similar to rat RhoGAP
10504	23426	36924	0.53	1.0E-93	11433646	NT	Homo sapiens ryanodine receptor 3 (RYR3), mRNA
12763	25405		2.11	1.0E-93	AJ230125.1	NT	Homo sapiens GGT1 gene, exon 1
12847	26457		3.14	1.0E-93	11417856	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2), mRNA
10958	23876		1.25	8.0E-94	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
3986	17026	29937	2.15	6.0E-94	AF142482.1	NT	Homo sapiens transcription enhancer factor-5 mRNA, complete cds
5441	18543	31454	3.23	5.0E-94	AB014512.1	NT	Homo sapiens mRNA for KIAA0812 protein, partial cds
5441	18543	31455	3.23	5.0E-94	AB014512.1	NT	Homo sapiens mRNA for KIAA0812 protein, partial cds
6168	19241	32472	3.06	5.0E-94	AA722434.1	EST_HUMAN	zg87g08.s1 Soares fetal heart_NBHH19W Homo sapiens cDNA clone IMAGE:409594 3'
7206	20230	33562	1.34	5.0E-94	AJ015800.1	EST_HUMAN	cl83305.s1 Soares total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:1823369 3'
8986	21952	35376	0.82	5.0E-94	BF529115.1	EST_HUMAN	602042163F1 NCL_CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4180023 5'
11318	24268	37795	2.81	5.0E-94	11423962	NT	Homo sapiens adenylylate kinase 2 (AK2), mRNA
11318	24268	37796	2.81	5.0E-94	11423962	NT	Homo sapiens adenylylate kinase 2 (AK2), mRNA
12497	25965	31318	6.07	5.0E-94	T86398.1	EST_HUMAN	yd88b04.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:116239 3'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
13048	26588		1.9	5.0E-94	9558724	NT	Homo sapiens cleavage and polyadenylation specific factor 1, 160kD subunit (CPSF1), mRNA
1859	14885		9.09	4.0E-94	L05094.1	NT	Homo sapiens ribosomal protein L27 mRNA, complete cds
2666	15663	28682	1	4.0E-94	4506008	NT	Homo sapiens protein phosphatase 1, regulatory subunit 10 (PPP1R10) mRNA
4748	17768	30664	2.95	4.0E-94	AI591312.1	EST_HUMAN	tw11f10.x1 NCL CGAP_Bm52 Homo sapiens cDNA clone IMAGE:2259403 3' similar to TR:Q15265 Q15265 PROTEIN TYROSINE PHOSPHATASE ;
6612	19670	32947	1.96	4.0E-94	11440670	NT	Homo sapiens solute carrier family 22 (organic cation transporter), member 1-like (SLC22A1L), mRNA
6612	19670	32948	1.96	4.0E-94	11440670	NT	Homo sapiens solute carrier family 22 (organic cation transporter), member 1-like (SLC22A1L), mRNA
7097	20031		0.99	4.0E-94	L27386.1	NT	Homo sapiens huntingtin (HD) gene, exon 37
11782	23937	37458	1.83	4.0E-94	11545792	NT	Homo sapiens hypothetical protein FLJ12455 (FLJ12455), mRNA
613	13678	26594	2.23	3.0E-94	AB022785.1	NT	Homo sapiens ASH2L gene, complete cds, similar to Drosophila ash2 gene
722	13784	26718	1.02	3.0E-94	4502506	NT	Homo sapiens complement component 5 (C5) mRNA
1754	14783	27767	1.12	3.0E-94	AF167706.1	NT	Homo sapiens cysteine-rich repeat-containing protein S52 precursor, mRNA, complete cds
1754	14783	27768	1.12	3.0E-94	AF167706.1	NT	Homo sapiens E1A binding protein p300 (EP300) mRNA
1787	14818	27801	4.2	3.0E-94	4557566	NT	Homo sapiens zinc finger protein 277 (ZNF277), mRNA
5764	18856	32037	3.32	3.0E-94	11496298	NT	Homo sapiens mRNA for MEGF2, partial cds
6274	19347	32679	0.99	3.0E-94	AB011536.1	NT	Homo sapiens chromosome 21 open reading frame 18 (C21ORF18), mRNA
6594	19654	32928	4.91	3.0E-94	11526228	NT	Homo sapiens neuronal cell adhesion molecule (NRCAM) mRNA
8088	21024	34423	0.52	3.0E-94	4828863	NT	Homo sapiens protocadherin alpha 13 (PCDH-alpha13) mRNA, complete cds
8540	21508	34925	1.03	3.0E-94	AF152309.1	NT	Homo sapiens mRNA for KIAA0679 protein, partial cds
8934	21900	35327	4.93	3.0E-94	AB014579.1	NT	Homo sapiens glycogenin-1L mRNA, complete cds
9650	22677	36340	4.37	3.0E-94	AF087942.1	NT	Homo sapiens axonal transport of synaptic vesicles (ATSV) mRNA
11436	24379	37919	3.76	3.0E-94	4757821	NT	Homo sapiens truncated form 1 lacking leucine zipper mRNA, complete cds
11987	24864	38460	2.17	3.0E-94	U26711.1	NT	Human cbl-b truncated form 1 lacking leucine zipper mRNA, complete cds
10110	23036	36514	0.66	2.0E-94	AI910393.1	EST_HUMAN	w30h11.x1 NCL CGAP_Co16 Homo sapiens cDNA clone IMAGE:2391813 3'
10110	23036	36515	0.66	2.0E-94	AI910393.1	EST_HUMAN	w30h11.x1 NCL CGAP_Co16 Homo sapiens cDNA clone IMAGE:2391813 3'
150	13253	26182	2.81	1.0E-94	BE295714.1	EST_HUMAN	60117562F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:35531038 5'
3105	16162	29073	2.24	1.0E-94	BE253433.1	EST_HUMAN	60111696F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352559 5'
3105	16162	29074	2.24	1.0E-94	BE253433.1	EST_HUMAN	60111696F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352559 5'
4386	17414	30299	1.18	1.0E-94	9506892	NT	Homo sapiens hypothetical protein (FLJ20746), mRNA
6191	19265	32501	0.65	1.0E-94	AE000269.1	NT	Escherichia coli K-12 MG1655 section 159 of 400 of the complete genome
6397	19465	32711	0.81	1.0E-94	AL040518.1	EST_HUMAN	DKFZp434G0314_1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434G0314 5'
6406	19474	32722	0.77	1.0E-94	H08270.1	EST_HUMAN	y8702.1 Scores infant brain 1N1B Homo sapiens cDNA clone IMAGE:45053 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6668	19725	33000	0.56	1.0E-94	AV725992.1	EST_HUMAN	AV725992 HTG Homo sapiens cDNA clone HTCBEF05 5'
8450	21419	34833	0.56	1.0E-94	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
8450	21419	34834	0.58	1.0E-94	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
9611	22815	36067	2.57	1.0E-94	11428710	NT	Homo sapiens paired box gene 5 (B-cell lineage specific activator protein) (PAX5), mRNA
10146	23072	36547	1.93	1.0E-94	BE780478.1	EST_HUMAN	601488748F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3872089 5'
11405	24349	37881	2.77	1.0E-94	U65590.1	NT	Homo sapiens IL-1 receptor antagonist IL-1Ra (IL-1RN) gene, alternatively spliced forms, complete cds
11846	24583	38151	1.94	1.0E-94	A1272244.1	EST_HUMAN	ap22e02.x1 Schiller oligodendroglioma Homo sapiens cDNA clone IMAGE:1956122 3' similar to TR:Q82845
12050	24923	39520	3.39	1.0E-94	11418871	NT	Q62845 NEURAL CELL ADHESION PROTEIN BIG-2 PRECURSOR ;
12616	13253	26182	1.43	1.0E-94	BE295714.1	EST_HUMAN	Homo sapiens KIAA0184 gene product (KIAA0184), mRNA
12887	13253	26182	1.31	1.0E-94	BE295714.1	EST_HUMAN	601175762F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531038 5'
1473	14506	27480	1.3	9.0E-95	AF027302.1	NT	601175762F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531038 5'
3170	16225	29140	1.19	9.0E-95	7662027	NT	Homo sapiens TNF-alpha stimulated ABC protein (ABC50) mRNA, complete cds
3170	16225	29141	1.19	9.0E-95	7662027	NT	Homo sapiens KIAA0255 gene product (KIAA0255), mRNA
5479	18579	31489	1.38	9.0E-95	X82569.1	NT	Homo sapiens KIAA0255 gene product (KIAA0255), mRNA
5479	18579	31490	1.38	9.0E-95	X82569.1	NT	M.musculus glyT1 gene (exons 1c and 2)
8595	21563	34977	1.61	9.0E-95	AF274753.1	NT	M.musculus glyT1 gene (exons 1c and 2)
4567	17590	30482	1.82	8.0E-95	A1700988.1	EST_HUMAN	Homo sapiens progressive ankylosis-like protein (ANK) mRNA, complete cds
4567	17590	30483	1.82	8.0E-95	A1700988.1	EST_HUMAN	we09e04.x1 NCL CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2340606 3' similar to gb:K00558
7136	20112	33425	0.83	8.0E-95	11419376	NT	TUBULIN ALPHA-1 CHAIN (HUMAN);
7452	20418	33773	1.55	8.0E-95	11426529	NT	TUBULIN ALPHA-1 CHAIN (HUMAN);
7452	20418	33774	1.55	8.0E-95	11426529	NT	Homo sapiens KIAA0183 gene product (KIAA0183), mRNA
8539	21507	34924	2.02	8.0E-95	AF032897.1	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, non-ATPase, 11 (PSMD11), mRNA
9720	22748	36189	1.97	8.0E-95	11420944	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, non-ATPase, 11 (PSMD11), mRNA
9720	22748	36200	1.97	8.0E-95	11420944	NT	Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds
10207	23132	36619	2.67	8.0E-95	5174844	NT	Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds
10238	23163	37008	3.08	8.0E-95	AB037816.1	NT	Homo sapiens KIAA0255 gene product (KIAA0255), mRNA
10595	23517	37008	0.8	8.0E-95	9845523	NT	Homo sapiens proline dehydrogenase (proline oxidase) (PRODH) mRNA
11813	24098	38279	2.21	8.0E-95	10864024	NT	Homo sapiens mRNA for KIAA1395 protein, partial cds
12820	25442		29.02	8.0E-95	AA629056.1	EST_HUMAN	Homo sapiens early growth response 2 (Krox-20 (Drosophila) homolog) (EGR2), mRNA
							Homo sapiens HCF-binding transcription factor Zhangfei (ZF), mRNA
							zu84b01.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:744849 3' similar to contains L1.t1 L1
							repetitive element;

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Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
275	13371	26298	6.59	7.0E-95	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
275	13371	26299	6.59	7.0E-95	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
4394	17422	30307	4.55	7.0E-95	M95708.1	NT	Homo sapiens Ly-8-like protein (CD59) mRNA, complete cds
4443	17469		1.26	7.0E-95	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
5090	18100	30976	1	7.0E-95	M95929.1	NT	Human homeobox protein (PHOX1) mRNA, 3' end
9572	22534	35985	0.82	4.0E-95	BE439625.1	EST_HUMAN	HTM1-288F HTM1 Homo sapiens cDNA
12013	24890	35487	1.93	4.0E-95	AW950634.1	EST_HUMAN	EST362704 MAGC resequences, MAGA Homo sapiens cDNA
12013	24890	35488	1.93	4.0E-95	AW950634.1	EST_HUMAN	EST362704 MAGC resequences, MAGA Homo sapiens cDNA
12065	24938	35534	1.79	4.0E-95	BF371302.1	EST_HUMAN	RC8-FN0114-090800-011-B07 FN0114 Homo sapiens cDNA
5517	18617	31550	1.61	3.0E-95	BF526041.1	EST_HUMAN	602071146F1 NC1 CGAP_Brn84 Homo sapiens cDNA clone IMAGE:4214147 5'
5757	25644	32030	0.54	3.0E-95	4503354	NT	Homo sapiens dedicator of cyto-kinesis 1 (DOCK1) mRNA
7593	20554	33913	1	3.0E-95	AW958121.1	EST_HUMAN	EST370191 MAGC resequences, MAGC Homo sapiens cDNA
7593	20554	33914	1	3.0E-95	AW958121.1	EST_HUMAN	EST370191 MAGC resequences, MAGC Homo sapiens cDNA
9710	22663	36119	1.75	3.0E-95	7662289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
9710	22663	36120	1.75	3.0E-95	7662289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
10104	23030	36508	0.69	3.0E-95	BF213446.1	EST_HUMAN	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
1651	14683	27656	2.18	2.0E-95	7662027	NT	601845212F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:4070451 5'
1651	14683	27657	2.18	2.0E-95	7662027	NT	Homo sapiens KIAA0255 gene product (KIAA0255), mRNA
1958	14980	27982	2.13	2.0E-95	4507512	NT	Homo sapiens tissue inhibitor of metalloproteinase 3 (Sorsby fundus dystrophy, pseudoinflammatory) (TIMP3) mRNA
1961	14983	27986	1.36	2.0E-95	BE393873.1	EST_HUMAN	601312161F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3658862 5'
2433	15440	28457	1.43	2.0E-95	5453665	NT	Homo sapiens G protein-coupled receptor 19 (GPR19) mRNA
2433	15440	28458	1.43	2.0E-95	5453665	NT	Homo sapiens G protein-coupled receptor 19 (GPR19) mRNA
2473	15477	28500	3.35	2.0E-95	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
2520	15523	28545	1.2	2.0E-95	4758423	NT	Homo sapiens glycine cleavage system protein H (aminomethyl carrier) (GCSH) mRNA
3171	16226	29142	2.48	2.0E-95	AF015452.1	NT	Homo sapiens Usurpin-gamma mRNA, complete cds
3577	16622	29542	2.93	2.0E-95	7705900	NT	Homo sapiens unconventional myosin-15 (LOC51168), mRNA
3577	16622	29543	2.93	2.0E-95	7705900	NT	Homo sapiens unconventional myosin-15 (LOC51168), mRNA
3631	16674	29567	0.93	2.0E-95	AB037807.1	NT	Homo sapiens mRNA for KIAA1366 protein, partial cds
3763	16905	29716	1.09	2.0E-95	AI290284.1	EST_HUMAN	qin01c02.x1 Soares_NIHMPu_S1 Homo sapiens cDNA clone IMAGE:1880546 3' similar to WP:123G7.4 CE03705
4388	17416	30300	1.69	2.0E-95	7657185	NT	Homo sapiens hypothetical protein (HS322B1A), mRNA
5077	18087	30967	2.92	2.0E-95	7661979	NT	Homo sapiens KIAA0187 gene product (KIAA0187), mRNA

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5557	18654	31598	4.36	2.0E-05	7705764	NT	Homo sapiens CGI-48 protein (LOC51096), mRNA
5557	18654	31599	4.36	2.0E-05	7705764	NT	Homo sapiens CGI-48 protein (LOC51096), mRNA
5782	18874	32055	1.22	2.0E-05	11225608	NT	Homo sapiens angiotensin I converting enzyme (peptidyl-dipeptidase A) 2 (ACE2), mRNA
5782	18874	32056	1.22	2.0E-05	11225608	NT	Homo sapiens angiotensin I converting enzyme (peptidyl-dipeptidase A) 2 (ACE2), mRNA
5827	18917	32101	0.67	2.0E-05	11525983	NT	Homo sapiens membrane protein, palmitoylated 3 (MAGUK p55 subfamily member 3) (MPP3), mRNA
6265	19338	32571	3.71	2.0E-05	M59724.1	NT	Human muscle-type phosphofructokinase (PFK-M) gene, exon 7
6592	19652	32923	1.01	2.0E-05	11427182	NT	Homo sapiens transcription factor 2, hepatic; LF-B3; variant hepatic nuclear factor (TCF2), mRNA
6592	19652	32924	1.01	2.0E-05	11427182	NT	Homo sapiens transcription factor 2, hepatic; LF-B3; variant hepatic nuclear factor (TCF2), mRNA
6722	19778	33057	2.39	2.0E-05	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 8 (DNAH8), complete cds
6928	20152	33471	1.37	2.0E-05	11435773	NT	Homo sapiens huntingtin (Huntington disease) (HD), mRNA
8498	22462	35903	2.51	2.0E-05	11421795	NT	Homo sapiens ribophorin II (RPN2), mRNA
10747	23669	37168	0.54	2.0E-05	11434330	NT	Homo sapiens KIAA1065 protein (KIAA1065), mRNA
11078	24040	37564	1.72	2.0E-05	4757853	NT	Homo sapiens bone morphogenetic protein receptor, type IA (BMPRI1A), mRNA
12011	24888	38484	2.35	2.0E-05	7662289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
12011	24888	38485	2.35	2.0E-05	7662289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
12587	25291	31782	2.69	2.0E-05	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
12984	25546	31718	5.81	2.0E-05	11418164	NT	Homo sapiens adenylosuccinate lyase (ADSL), mRNA
5696	18791	31682	7.21	1.0E-05	AA284651.1	EST_HUMAN	z23h04.f1 Soares ovary tumor NbHOT Homo sapiens cDNA clone IMAGE:714007 5' similar to TR:G1067084 G1067084 F59H2.6;
5696	18791	31683	7.21	1.0E-05	AA284651.1	EST_HUMAN	z23h04.f1 Soares ovary tumor NbHOT Homo sapiens cDNA clone IMAGE:714007 5' similar to TR:G1067084 G1067084 F59H2.6;
7757	20710	34079	4.21	1.0E-05	BF370000.1	EST_HUMAN	RC8-FN0019-290600-011-G11 FN0019 Homo sapiens cDNA
7757	20710	34080	4.21	1.0E-05	BF370000.1	EST_HUMAN	RC8-FN0019-290600-011-G11 FN0019 Homo sapiens cDNA
8536	21504	34922	1.58	8.0E-06	BE897259.1	EST_HUMAN	601437232F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3922423 5'
442	16840	26447	1.36	8.0E-06	BE907607.1	EST_HUMAN	601497608F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3899761 5'
442	16840	26448	1.36	8.0E-06	BE907607.1	EST_HUMAN	601497608F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3899761 5'
5589	18685	29882	2.28	8.0E-06	AW836047.1	EST_HUMAN	PMO-L70019-090300-002-009 L70019 Homo sapiens cDNA
3929	16969	29882	1.06	7.0E-06	AF231920.1	NT	Homo sapiens chromosome 21 unknown mRNA
3329	16380	26301	0.84	6.0E-06	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
3494	16541	26465	15.12	6.0E-06	M26873.1	NT	Human glyceraldehyde-3-phosphate dehydrogenase pseudogene 3'end
5722	18816	31695	0.82	6.0E-06	11422642	NT	Homo sapiens sialyltransferase 6 (N-acetylglucosaminidase alpha 2,3-sialyltransferase) (SIAT6), mRNA

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11872	24754	38335	2.59	6.0E-96	7662289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
11872	24754	38336	2.59	6.0E-96	7662289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
11918	24799	38390	2.78	6.0E-96	8923909	NT	Homo sapiens myosin, heavy polypeptide 2, skeletal muscle, adult (MYH2), mRNA
320	13412	26336	3.08	5.0E-96	AB032998.1	NT	Homo sapiens mRNA for KIAA1172 protein, partial cds
843	13899	28855	3.47	5.0E-96	AB032998.1	NT	Homo sapiens mRNA for KIAA1172 protein, partial cds
843	13899	28856	3.47	5.0E-96	AB032998.1	NT	Homo sapiens mRNA for KIAA1172 protein, partial cds
2826	15625		1.23	5.0E-96	11416767	NT	Homo sapiens phosphodiesterase 9A, cGMP-specific, rod, alpha (PDE9A), mRNA
3039	18097	29013	0.71	5.0E-96	6912735	NT	Homo sapiens transient receptor potential channel 5 (TRPC5), mRNA
4940	17956		0.93	5.0E-96	X60812.1	NT	H. sapiens DNA for monomamine oxidase type A (7) (partial)
5233	18241	31113	0.93	5.0E-96	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
6807	19861	33148	1.15	5.0E-96	AF148773.1	NT	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
6870	19823	33219	0.5	5.0E-96	AJ277557.1	NT	Homo sapiens dNT-2 gene for mitochondrial 5(3')-deoxyribonucleotidase (dNT-2 gene), exons 1-5
6949	20173	33498	4.02	5.0E-96	11424398	NT	Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP1), mRNA
6949	20173	33497	4.02	5.0E-96	11424398	NT	Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP1), mRNA
7219	20241	33576	0.78	5.0E-96	AB023177.1	NT	Homo sapiens mRNA for KIAA0960 protein, partial cds
7758	20711	34081	0.7	5.0E-96	AB024334.1	NT	Homo sapiens mRNA for 14-3-3gamma, complete cds
8443	21412	34825	6.11	5.0E-96	M68347.1	NT	Human type IV collagenase (CLG4B) gene, exon 5
8443	21412	34828	6.11	5.0E-96	M68347.1	NT	Human type IV collagenase (CLG4B) gene, exon 5
12076	24948	38543	1.51	5.0E-96	7661973	NT	Homo sapiens KIAA0175 gene product (KIAA0175), mRNA
4219	17248		7.1	3.0E-96	H68656.1	EST_HUMAN	yr87h12.1 Soares fetal liver spleen tNfLS Homo sapiens cDNA clone IMAGE:212327 5'
416	13488		4.65	2.0E-96	4503098	NT	Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA
748	13809	26750	1.12	2.0E-96	AL163248.2	NT	Homo sapiens chromosome 21 segment HS21C048
4790	17808	30700	1.39	2.0E-96	BE148074.1	EST_HUMAN	RC3-HT0230-040500-110-g02 HT0230 Homo sapiens cDNA
7696	20854	34017	0.58	2.0E-96	BF369731.1	EST_HUMAN	QV4-GN0120-250900-427-b12 GN0120 Homo sapiens cDNA
7696	20854	34018	0.58	2.0E-96	BF369731.1	EST_HUMAN	QV4-GN0120-250900-427-b12 GN0120 Homo sapiens cDNA
9332	22297		5.83	2.0E-96	AV689461.1	EST_HUMAN	AV689461 GK Homo sapiens cDNA clone GKCFMD07 5'
12285	25102		3.08	2.0E-96	AW249440.1	EST_HUMAN	2819351.5prine NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2819351 5'
672	13736	26863	2.47	1.0E-96	Y18890.1	NT	Human endogenous retrovirus type K (HERV-K), gag, pol and env genes
1796	14825	27809	2.35	1.0E-96	AW955054.1	EST_HUMAN	EST367124 MAGC resequences, MAGC Homo sapiens cDNA
1796	14825	27810	2.35	1.0E-96	AW955054.1	EST_HUMAN	EST367124 MAGC resequences, MAGC Homo sapiens cDNA
2237	15251	28274	1.04	1.0E-96	M75967.1	NT	Human hepatocyte growth factor gene, exon 1
2237	15251	28275	1.04	1.0E-96	M75967.1	NT	Human hepatocyte growth factor gene, exon 1
7158	18390	31234	1.15	1.0E-96	6912735	NT	Homo sapiens transient receptor potential channel 5 (TRPC5), mRNA

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7250	19885	33283	0.55	1.0E-96	6912455	NT	Homo sapiens guanine nucleotide exchange factor for Rap1 (KIAA0277), mRNA
8555	21523	34941	1.35	1.0E-96	7661803	NT	Homo sapiens HSPC144 protein (HSPC144), mRNA
8555	21523	34942	1.35	1.0E-96	7661803	NT	Homo sapiens HSPC144 protein (HSPC144), mRNA
9066	22032	35455	24.51	1.0E-96	11419429	NT	Homo sapiens similar to ectonucleotide pyrophosphatase/phosphodiesterase 3 (H. sapiens) (LOC63214), mRNA
9202	22168	35598	2.21	1.0E-96	AF274863.1	NT	Homo sapiens secretory pathway component Sec31B-1 mRNA, alternatively spliced, complete cds
10520	23442	36939	0.91	1.0E-96	AB033116.1	NT	Homo sapiens mRNA for KIAA1290 protein, partial cds
10520	23442	36940	0.91	1.0E-96	AB033116.1	NT	Homo sapiens mRNA for KIAA1290 protein, partial cds
12272	18332	31159	1.59	1.0E-96	4826863	NT	Homo sapiens neuronal cell adhesion molecule (NRCAM) mRNA
12272	18332	31170	1.59	1.0E-96	4826863	NT	Homo sapiens neuronal cell adhesion molecule (NRCAM) mRNA
3338	16389	29310	0.65	6.0E-97	BF245240.1	EST_HUMAN	601963712F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4081202 5'
7806	20756		3.82	6.0E-97	BE141849.1	EST_HUMAN	IL5-HT017-011096-004-D07 HT0117 Homo sapiens cDNA
9286	22552	35682	0.85	6.0E-97	BE98012.1	EST_HUMAN	601440317F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3925133 5'
9286	22552	35683	0.85	6.0E-97	BE98012.1	EST_HUMAN	601440317F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3925133 5'
10959	23879	37391	0.71	6.0E-97	AA320332.1	EST_HUMAN	EST22672 Adipose tissue, white II Homo sapiens cDNA 5' end
10959	23879	37392	0.71	6.0E-97	AA320332.1	EST_HUMAN	EST22672 Adipose tissue, white II Homo sapiens cDNA 5' end
11734	24620	38198	3.43	6.0E-97	X15804.1	NT	Human mRNA for alpha-actinin
8348	21317	34732	2.27	5.0E-97	AL043314.2	EST_HUMAN	DKFZp434N0323_1 434 (synonym: hhes3) Homo sapiens cDNA clone IMAGE:767758 3' similar to TR:G1304125
8482	21450	34868	13.95	5.0E-97	AA418026.1	EST_HUMAN	z07e12.s1 Soares_Nh-MMPu_S1 Homo sapiens cDNA clone DKFZp434N0323 5'
10034	22861	36426	2.61	5.0E-97	BF154912.1	EST_HUMAN	G1304125 PMS4 mRNA ;
11873	24755	38337	1.75	5.0E-97	BE148597.1	EST_HUMAN	RC0-BT0812-250900-032-a09 BT0812 Homo sapiens cDNA
11873	24755	38338	1.75	5.0E-97	BE148597.1	EST_HUMAN	MR0-HT0241-150500-010-b02 HT0241 Homo sapiens cDNA
938	13991	26943	2.4	4.0E-97	BE004436.1	EST_HUMAN	MR0-HT0241-150500-010-b02 HT0241 Homo sapiens cDNA
948	14001	26954	1.87	4.0E-97	AB030176.1	NT	CM0-BN0106-170300-293-a06 BN0106 Homo sapiens cDNA
948	14001	26954	1.87	4.0E-97	AB030176.1	NT	Homo sapiens PAD-H19 mRNA for peptidylarginine deiminase type II, complete cds
1925	14949	27945	0.99	4.0E-97	5453572	NT	Homo sapiens PAD-H19 mRNA for peptidylarginine deiminase type II, complete cds
5845	18741	31908	0.68	4.0E-97	4557326	NT	Homo sapiens apolipoprotein H (beta-2-glycoprotein I) (APOH) mRNA
5956	19041	32239	0.52	4.0E-97	U09002.1	NT	Human N-methyl-D-aspartate receptor modulatory subunit 2A (NMR2A) mRNA, complete cds
5956	19041	32240	0.52	4.0E-97	U09002.1	NT	Human N-methyl-D-aspartate receptor modulatory subunit 2A (NMR2A) mRNA, complete cds
6897	20123	33437	5.9	4.0E-97	Y11339.2	NT	Homo sapiens mRNA for GalNAc alpha-2, 8-sialyltransferase I, long form
6897	20123	33438	5.9	4.0E-97	Y11339.2	NT	Homo sapiens mRNA for GalNAc alpha-2, 8-sialyltransferase I, long form
7217	20239	33573	1.35	4.0E-97	7710125	NT	Homo sapiens ligase III, DNA, ATP-dependent (LIG3), transcript variant alpha, mRNA

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7270	20005	33305	0.94	4.0E-97	11422155	NT	Homo sapiens cystic fibrosis transmembrane conductance regulator, ATP-binding cassette (sub-family C, member 7) (CFTR), mRNA
8474	21443	34680	0.68	4.0E-97	4557708	NT	Homo sapiens laminin, alpha 2 (merosin, congenital muscular dystrophy) (LAMA2) mRNA
8701	21669	35092	1.62	4.0E-97	11421793	NT	Homo sapiens v-src avian sarcoma (Schmidt-Ruppin A-2) viral oncogene homolog (SRC), mRNA
8926	21892	35320	0.49	4.0E-97	11431060	NT	Homo sapiens N-myc (and STAT) interactor (NMI), mRNA
8967	21933	35358	0.78	4.0E-97	11423233	NT	Homo sapiens cytochrome P450, subfamily IVB, polypeptide 1 (CYP4B1), mRNA
9603	22607	36057	1.36	4.0E-97	AB011166.1	NT	Homo sapiens mRNA for KIAA0594 protein, partial cds
10803	23724	37226	0.79	4.0E-97	11431060	NT	Homo sapiens mRNA for KIAA0594 protein, partial cds
11498	24441	37691	2.15	4.0E-97	11863122	NT	Homo sapiens N-myc (and STAT) interactor (NMI), mRNA
11498	24441	37692	2.15	4.0E-97	11863122	NT	Homo sapiens AXL receptor tyrosine kinase (AXL), transcript variant 1, mRNA
12467	25216		7.99	4.0E-97	11418318	NT	Homo sapiens G-2 and S-phase expressed 1 (GTSE1), mRNA
243	13341	26268	1.01	3.0E-97	AB032988.1	NT	Homo sapiens mRNA for KIAA1172 protein, partial cds
875	13931	26889	2.71	3.0E-97	4502166	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
875	13931	26890	2.71	3.0E-97	4502166	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
1435	15868	27446	1.72	3.0E-97	4758813	NT	Homo sapiens N-myc (and STAT) interactor (NMI), mRNA
2445	15825	28470	1.57	3.0E-97	U36255.1	NT	Human beta-prime-adaptin (BAM22) gene, exon 7
3185	16240	29158	2.22	3.0E-97	K02212.1	NT	Human alpha-1-antitrypsin gene (S variant), complete cds
3274	16328	29249	1.01	3.0E-97	5174478	NT	Homo sapiens pericentrin (PCNT) mRNA
4815	17832	30730	18.16	1.0E-97	4503470	NT	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA
6567	19627	32892	2.5	1.0E-97	BE568486.1	EST_HUMAN	601339520F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3681821 5'
9799	21122	34525	0.51	1.0E-97	AW378976.1	EST_HUMAN	RC0-HT0258-211199-011-g05 HT0258 Homo sapiens cDNA
9799	21122	34526	0.51	1.0E-97	AW378976.1	EST_HUMAN	RC0-HT0258-211199-011-g05 HT0258 Homo sapiens cDNA
10122	23048	36527	1.46	1.0E-97	R10887.1	EST_HUMAN	yf38c08. s1 Soares fetal liver screen tNFLS Homo sapiens cDNA clone IMAGE:129134 3'
11062	24025	37549	3.07	1.0E-97	11427757	NT	Homo sapiens KIAA0649 gene product (KIAA0649), mRNA
11062	24025	37550	3.07	1.0E-97	11427757	NT	Homo sapiens KIAA0649 gene product (KIAA0649), mRNA
11639	24576	38142	1.87	1.0E-97	AA553761.1	EST_HUMAN	nk29g02.s1 NCI_CGAP_Cot11 Homo sapiens cDNA clone IMAGE:1014962 3'
11796	23951	37472	35.59	1.0E-97	11426272	NT	Homo sapiens ribosomal protein S15 (RPS15), mRNA
11796	23951	37473	35.59	1.0E-97	11426272	NT	Homo sapiens ribosomal protein S15 (RPS15), mRNA
902	13957	26914	1.43	9.0E-98	BE090873.1	EST_HUMAN	PM4-BT0724-010400-008-at2 BT0724 Homo sapiens cDNA
1281	14318	27278	2.02	9.0E-98	8390092	NT	Homo sapiens cat eye syndrome critical region gene 1 (CECR1), mRNA
6435	19501		0.63	9.0E-98	AJ250713.1	NT	Homo sapiens CLDN12 gene for claudin-12

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Table 4
Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7507	20472	33832	0.55	9.0E-98	7661871	NT	Homo sapiens leucyl-tRNA synthetase, mitochondrial (KIAA0028), mRNA
7617	20577	33940	0.56	9.0E-98	11419408	NT	Homo sapiens A kinase (PRKA) anchor protein (yotiao) 9 (AKAP9), mRNA
8257	21226	34636	5.5	9.0E-98	4758119	NT	Homo sapiens death-associated protein (DAP), mRNA
8257	21226	34637	5.5	9.0E-98	4758119	NT	Homo sapiens death-associated protein (DAP), mRNA
9471	22435	35873	2.01	9.0E-98	X06989.1	NT	Human mRNA for amyloid A4(751) protein
9579	22541	35991	1.44	9.0E-98	11321580	NT	Homo sapiens succinate-CoA ligase, GDP-forming, alpha subunit (SUCLG1), mRNA
9647	22591	36040	1.49	9.0E-98	AB037786.1	NT	Homo sapiens mRNA for KIAA1365 protein, partial cds
9694	22647		0.83	9.0E-98	AF057726.1	NT	Homo sapiens 17-beta-hydroxysteroid dehydrogenase IV (HSD17B4) gene, exon 8
9722	22750	36202	1.16	9.0E-98	4507070	NT	Homo sapiens SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 3 (SMARCA3) mRNA
9722	22750	36203	1.16	9.0E-98	4507070	NT	Homo sapiens SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 3 (SMARCA3) mRNA
10623	23545	37045	0.5	9.0E-98	AF141325.2	NT	Homo sapiens inositol polyphosphate 1-phosphatase (INPP1) gene, complete cds
11346	24286	37823	2.06	9.0E-98	AB023222.1	NT	Homo sapiens mRNA for KIAA1005 protein, partial cds
11346	24286	37824	2.06	9.0E-98	AB023222.1	NT	Homo sapiens mRNA for KIAA1005 protein, partial cds
11407	24351	37883	1.75	9.0E-98	11418882	NT	Homo sapiens mitogen-activated protein kinase kinase kinase 7 (MAP3K7), mRNA
26	13148		2.24	8.0E-98	AJ251156.1	NT	Homo sapiens partial MICB gene for MHC class I chain-related protein B, exons 2-3 and joined CDS
1562	14594	27568	1.49	8.0E-98	5031810	NT	Homo sapiens IL2-inducible T-cell kinase (ITK), mRNA
1562	14594	27569	1.49	8.0E-98	5031810	NT	Homo sapiens IL2-inducible T-cell kinase (ITK), mRNA
1739	14769	27754	2.73	8.0E-98	AB017007.1	NT	Homo sapiens PMS2L16 mRNA, partial cds
1739	14769	27755	2.73	8.0E-98	AB017007.1	NT	Homo sapiens PMS2L16 mRNA, partial cds
3607	16652	29569	0.97	8.0E-98	AJ229041.1	NT	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22; segment 1/3
3607	16652	29570	0.97	8.0E-98	AJ229041.1	NT	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22; segment 1/3
3809	16949	29757	6.45	8.0E-98	J04469.1	NT	Human mitochondrial creatine kinase (CKMT) gene, complete cds
6201	19276	32509	2.74	5.0E-98	BE885873.1	EST_HUMAN	601507503F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3908097 5'
2188	15203	28223	1.23	3.0E-98	AJ403124.1	EST_HUMAN	AJ403124.3.4 (downregulated in larynx carcinoma) Homo sapiens cDNA clone 18
2616	15614	28639	1.19	3.0E-98	AB014607.1	NT	Homo sapiens mRNA for KIAA0707 protein, partial cds
2759	15751		3.63	3.0E-98	AA077498.1	EST_HUMAN	7B18H01 Chromosome 7 Fetal Brain cDNA Library Homo sapiens cDNA clone 7B18H01
7131	20107	33418	0.7	3.0E-98	9966846	NT	Homo sapiens chromosome 12 open reading frame 4 (C12ORF4), mRNA
7134	20110	33422	1.63	3.0E-98	11419210	NT	Homo sapiens activator of S phase kinase (ASK), mRNA
7134	20110	33423	1.63	3.0E-98	11419210	NT	Homo sapiens activator of S phase kinase (ASK), mRNA
9104	22070	35496	3.59	3.0E-98	H46698.1	EST_HUMAN	yot17g09.r1 Soares adult brain N2B5HB55Y Homo sapiens cDNA clone IMAGE:178240 5'
9652	22595	36043	0.65	3.0E-98	8922096	NT	Homo sapiens uncharacterized bone marrow protein BM039 (BM039), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10243	23168	36955	1.51	3.0E-98	AJ403124.1	EST_HUMAN	AJ403124 3.4 (downregulated in larynx carcinoma) Homo sapiens cDNA clone i8
10243	23168	36956	1.51	3.0E-98	AJ403124.1	EST_HUMAN	AJ403124 3.4 (downregulated in larynx carcinoma) Homo sapiens cDNA clone i8
10839	23759	37259	0.89	3.0E-98	BE900454.1	EST_HUMAN	601873686F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3956517 5'
11299	24249	37775	2.09	3.0E-98	U59309.1	NT	Human fumarylase precursor (FH) mRNA, nuclear gene encoding mitochondrial protein, complete cds
12951	25935		1.4	3.0E-98	BE382519.1	EST_HUMAN	801297955F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3628213 5'
13039	25581		2.4	3.0E-98	11418177	NT	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
737	13798	26737	0.94	2.0E-98	BE261694.1	EST_HUMAN	601149486F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3502245 5'
2092	15109	28128	3.36	2.0E-98	BE294281.1	EST_HUMAN	801172959F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3528134 5'
2247	15261	28288	1.49	2.0E-98	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
4325	17354	30240	0.75	2.0E-98	AF032897.1	NT	Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds
4368	17395	30274	2.9	2.0E-98	4758331	NT	Homo sapiens fatty acid-Coenzyme A ligase, long-chain 4 (FACL4) mRNA
4864	17881	30767	1.22	2.0E-98	AF218902.1	NT	Homo sapiens attractin precursor (ATRIN) gene, exon 16
4964	17881	30768	1.22	2.0E-98	AF218902.1	NT	Homo sapiens attractin precursor (ATRIN) gene, exon 16
5450	18552	31464	4.26	2.0E-98	7706512	NT	Homo sapiens PDZ domain-containing guanine nucleotide exchange factor 1 (LOC51735), mRNA
8811	19865	31353	1.09	2.0E-98	4605798	NT	Homo sapiens phosphatidylinositol 3-kinase, class 2, alpha polypeptide (PIK3C2A) mRNA
7885	20829	34206	1.08	2.0E-98	11431271	NT	Homo sapiens hypothetical protein FLJ10488 (FLJ10488), mRNA
7885	20829	34207	1.08	2.0E-98	11431271	NT	Homo sapiens hypothetical protein FLJ10488 (FLJ10488), mRNA
8955	21921	35347	3.8	2.0E-98	11428813	NT	Homo sapiens SH3-domain GRB2-like 2 (SH3GL2), mRNA
8955	21921	35348	3.8	2.0E-98	11428813	NT	Homo sapiens SH3-domain GRB2-like 2 (SH3GL2), mRNA
9039	22005	35425	0.57	2.0E-98	L76666.1	NT	Homo sapiens NKAT4b mRNA, complete cds
9039	22005	35426	0.57	2.0E-98	L76666.1	NT	Homo sapiens NKAT4b mRNA, complete cds
9895	22848	36305	2.7	2.0E-98	X12664.1	NT	H sapiens arginase gene exon 3 (EC 3.5.3.1)
10778	23699		1.25	2.0E-98	7705968	NT	Homo sapiens AIM-1 protein (LOC51151), mRNA
11942	24822	38418	1.58	2.0E-98	AF273048.1	NT	Homo sapiens CTCL tumor antigen se20-9 mRNA, complete cds
405	13478	26413	23.04	1.0E-98	A1982007.1	EST_HUMAN	tw38b04.x1 NC1_LGAP_U11 Homo sapiens cDNA clone IMAGE:2261743 3' similar to SW:RL2B_HUMAN
455	13528	26458	2.12	1.0E-98	AW998611.1	EST_HUMAN	PMO-BN0065-100300-001-c05 BN0065 Homo sapiens cDNA
							yy23105.1 Scores fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:243585 5' similar to
1813	14840	27831	13.58	1.0E-98	N49818.1	EST_HUMAN	PIR:S54204 S54204 ribosomal protein L29 - human ;
5390	18493	31370	3.54	1.0E-98	AA195854.1	EST_HUMAN	zp98c09.r1 Sratogene muscle 937209 Homo sapiens cDNA clone IMAGE:628240 5' similar to TR:G806562
5649	18745	31912	1.07	1.0E-98	BE390627.1	EST_HUMAN	601284986F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3606892 5'
5649	18745	31913	1.07	1.0E-98	BE390627.1	EST_HUMAN	601284986F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3606892 5'

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9350	22315	35740	5.26	1.0E-98	AF141349.1	NT	Homo sapiens beta-tubulin mRNA, complete cds
9350	22315	35741	5.26	1.0E-98	AF141349.1	NT	Homo sapiens beta-tubulin mRNA, complete cds
5917	19003	32195	0.84	9.0E-98	AI905004.1	EST_HUMAN	QV-BT073-191298-012 BT073 Homo sapiens cDNA
5917	19003	32196	0.84	9.0E-98	AI905004.1	EST_HUMAN	QV-BT073-191298-012 BT073 Homo sapiens cDNA
6158	19233	32465	3.77	9.0E-98	AW968635.1	EST_HUMAN	EST380711 IMAGE reserences, MAGJ Homo sapiens cDNA
11456	24399	37946	3.71	9.0E-98	AI479829.1	EST_HUMAN	bm69h07.x1 NCI CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2163421 3' similar to SW:BIID_HUMAN
11456	24399	37947	3.71	9.0E-98	AI479829.1	EST_HUMAN	P55957 BH3 INTERACTING DOMAIN DEATH AGONIST ;
11460	24403	37951	2.19	9.0E-98	BF359679.1	EST_HUMAN	bm69h07.x1 NCI CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2163421 3' similar to SW:BIID_HUMAN
11743	24628	38207	1.84	9.0E-98	AA134604.1	EST_HUMAN	PM2-MT0037-250700-003-G04 MT0037 Homo sapiens cDNA
9078	22044	35467	1.18	8.0E-98	9635487	NT	zn90402.11 Stratagene lung carcinoma 937218 Homo sapiens cDNA clone IMAGE:565443 5' similar to
5933	18019	32214	9.72	7.0E-98	AF035808.1	NT	Human endogenous retrovirus, complete genome
11833	24814	38410	1.99	7.0E-98	AF001886.1	NT	Homo sapiens oscillin (hLn) gene, exon 5
472	13544	26473	0.84	6.0E-98	U10991.1	NT	Homo sapiens NK-receptor (KIR-G2) gene, linker region exon
4779	17799	30690	0.97	6.0E-98	4502860	NT	Human G2 protein mRNA, partial cds
6752	18806	33087	0.96	6.0E-98	7706136	NT	Homo sapiens CD34 antigen (CD34) mRNA
6835	19888	33182	0.81	6.0E-98	L43610.1	NT	Homo sapiens GAP-like protein (LOC51306), mRNA
6835	19888	33183	0.81	6.0E-98	L43610.1	NT	Homo sapiens GAP-like protein (LOC51306), mRNA
8441	21410	34823	1.06	6.0E-98	X99101.1	NT	Homo sapiens polycystic kidney disease (PKD1) gene, exons 27-30
8480	21429	34846	0.52	6.0E-98	6601589	NT	Homo sapiens polycystic kidney disease (PKD1) gene, exons 27-30
9117	22083	35511	2.24	6.0E-98	AB036428.1	NT	H. sapiens mRNA for estrogen receptor
9215	22181	35612	3.79	6.0E-98	AF080255.1	NT	Homo sapiens ankyrin-like with transmembrane domains 1 (ANKTM1), mRNA
9215	22181	35613	3.79	6.0E-98	AF080255.1	NT	Homo sapiens NDPST4 mRNA for N-deacetylase/N-sulfotransferase 4, complete cds
9275	22241	35669	0.64	6.0E-98	11431984	NT	Homo sapiens lodeslar protein mRNA, complete cds
9275	22241	35670	0.64	6.0E-98	11431984	NT	Homo sapiens lodeslar protein mRNA, complete cds
11074	24036	37560	3.32	6.0E-98	11526299	NT	Homo sapiens lodeslar protein mRNA, complete cds
11763	23938	37459	1.98	6.0E-98	9910279	NT	Homo sapiens lodeslar protein mRNA, complete cds
11763	23938	37460	1.98	6.0E-98	9910279	NT	Homo sapiens lodeslar protein mRNA, complete cds
1882	15003	28006	1.37	5.0E-98	Y11365.1	NT	Homo sapiens inositol 1,4,5-triphosphate receptor, type 1 (ITPR1), mRNA
4596	17817	30511	1.46	5.0E-98	AF009690.1	NT	Homo sapiens inositol 1,4,5-triphosphate receptor, type 1 (ITPR1), mRNA
12496	25238		5.2	5.0E-98	BE880177.1	EST_HUMAN	Homo sapiens BH3 interacting domain death agonist (BID), mRNA
8664	21632		5.74	3.0E-98	M95586.1	NT	Homo sapiens UDP-glucose:glycoprotein glucosyltransferase 1 (HUGT1), mRNA
							Homo sapiens UDP-glucose:glycoprotein glucosyltransferase 1 (HUGT1), mRNA
							H. sapiens IMPA gene, exon 8
							Homo sapiens T cell receptor beta locus, TCRBV7S3A2 to TCRBV12S2 region
							601513157F1.NIH.MGC.71 Homo sapiens cDNA clone IMAGE:3914391 5'
							Human E2A/HLA fusion protein (E2A/HLF) mRNA, complete cds

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Table 4
Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1244	14281		16.34	2.0E-99	AW274792.1	EST_HUMAN	xp09e06.x1 NCL_CGAP_HN9 Homo sapiens cDNA clone IMAGE:2739874 3' similar to gb:M31212 MYOSIN LIGHT CHAIN ALKALI, NON-MUSCLE ISOFORM (HUMAN);
3272	16328	29248	1.19	2.0E-99	M30938.1	NT	Human Ku (p70/p80) subunit mRNA, complete cds
4574	17596	30490	1.95	2.0E-99	AF095703.1	NT	Homo sapiens short chain L-3-hydroxyacyl-CoA dehydrogenase precursor (HADHSC) gene, nuclear gene encoding mitochondrial protein, complete cds
7938	20878	34268	0.67	2.0E-99	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
9055	22021	35446	12.17	2.0E-99	W23507.1	EST_HUMAN	zb46d06.r1 Soares_fetal_lung_NbHL19W Homo sapiens cDNA clone IMAGE:306635 5' similar to gb:M15182 BETA-GLUCURONIDASE PRECURSOR (HUMAN);
9507	22470	35914	0.65	2.0E-99	R78254.1	EST_HUMAN	y81009.r1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:145625 5'
11440	24383	37923	2.56	2.0E-99	AF247457.2	NT	Homo sapiens myosin X (MYO10) mRNA, complete cds
315	13407	26333	1.5	1.0E-99	AF114487.1	NT	Homo sapiens intersectin long isoform (ITSN) mRNA, complete cds
379	13463	26393	1.04	1.0E-99	11526150	NT	Homo sapiens GA-binding protein transcription factor, alpha subunit (60kD) (GABPA), mRNA
1419	14452	27426	1.98	1.0E-99	M30938.1	NT	Human Ku (p70/p80) subunit mRNA, complete cds
1559	14591	27563	1.52	1.0E-99	AF192523.1	NT	Homo sapiens truncated Niemann-Pick C3 protein (NPC3) mRNA, complete cds
1559	14591	27564	1.52	1.0E-99	AF192523.1	NT	Homo sapiens truncated Niemann-Pick C3 protein (NPC3) mRNA, complete cds
1944	14968	27965	1.18	1.0E-99	4503730	NT	Homo sapiens FK506-binding protein 6 (36kD) (FKBP6) mRNA, and translated products
1944	14968	27966	1.18	1.0E-99	4503730	NT	Homo sapiens FK506-binding protein 6 (36kD) (FKBP6) mRNA, and translated products
3101	16158	29070	1.6	1.0E-99	J03171.1	NT	Human Interferon-alpha receptor (HuIFN-alpha-Rec) mRNA, complete cds
4407	17435	30320	2.26	1.0E-99	AF098018.1	NT	Homo sapiens fatty acid amide hydrolase (FAAH) gene, exon 14
4407	17435	30321	2.26	1.0E-99	AF098018.1	NT	Homo sapiens fatty acid amide hydrolase (FAAH) gene, exon 14
5836	18926	32110	0.59	1.0E-99	7662349	NT	Homo sapiens cell recognition molecule Caspr2 (KIAA0868), mRNA
6976	20189	33528	1.77	1.0E-99	11421007	NT	Homo sapiens glycine receptor, alpha 2 (GLRA2), mRNA
6976	20199	33529	1.77	1.0E-99	11421007	NT	Homo sapiens glycine receptor, alpha 2 (GLRA2), mRNA
7348	25880	33662	0.61	1.0E-99	X98022.1	NT	H. sapiens E8-AP gene exon 2
8554	22516		0.85	1.0E-99	11419721	NT	Homo sapiens ALEX1 protein (LOC51309), mRNA
9878	22831	36285	1.99	1.0E-99	AW340174.1	EST_HUMAN	hd02h02.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2908371 3' similar to TR:O02711
11473	24416	37965	1.89	1.0E-99	7427514	NT	O02711 PRO-POL-DUTPASE POLYPROTEIN;
11473	24416	37966	1.89	1.0E-99	7427514	NT	Homo sapiens huntingtin interacting protein 1 (HIP1), mRNA
11705	24670	38247	2.17	1.0E-99	AB023222.1	NT	Homo sapiens huntingtin interacting protein 1 (HIP1), mRNA
12253	25079		9.09	1.0E-99	AF240786.1	NT	Homo sapiens mRNA for KIAA1005 protein, partial cds
1	13123	26021	1.83	1.0E-100	AL163247.2	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
2	13123	26021	1.19	1.0E-100	AL163247.2	NT	Homo sapiens chromosome 21 segment HS21C047

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
69	13187	26105	1.3	1.0E-100	11418230	NT	Homo sapiens Testis-specific XK-related protein on Y (XKRY), mRNA
69	13187	26106	1.3	1.0E-100	11418230	NT	Homo sapiens Testis-specific XK-related protein on Y (XKRY), mRNA
87	13203	26128	0.67	1.0E-100	AW275237.1	EST_HUMAN	x78b1.1x1 NCI_CGAP_Bm53 Homo sapiens cDNA clone IMAGE:2824605 3'
170	13272	26197	2.52	1.0E-100	AL163206.2	NT	Homo sapiens chromosome 21 segment HS21C006
317	13409	26335	0.96	1.0E-100	AL163249.2	NT	Homo sapiens chromosome 21 segment HS21C049
343	13432	26354	2.53	1.0E-100	T05087.1	EST_HUMAN	EST02975 Fetal brain, Stratagene (cat#83206) Homo sapiens cDNA clone HFBGR32
437	13511		2.36	1.0E-100	AF003528.1	NT	Homo sapiens X-linked anhidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
490	13563		4.8	1.0E-100	X89631.1	NT	G.gorilla DNA for ZNF80 gene homolog
510	13581	26502	1.4	1.0E-100	BE180608.1	EST_HUMAN	RC3-HT0625-040500-022-509 HT0625 Homo sapiens cDNA
1021	14067	27017	4.33	1.0E-100	7661685	NT	Homo sapiens DKFZP586M0122 protein (DKFZP586M0122), mRNA
1021	14067	27018	4.33	1.0E-100	7661685	NT	Homo sapiens DKFZP586M0122 protein (DKFZP586M0122), mRNA
1549	14582		1.23	1.0E-100	AW207555.1	EST_HUMAN	UH-FB11-afk-c-07-q-U1.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2722184 3'
1554	14586	27558	1.49	1.0E-100	AI200857.1	EST_HUMAN	q62709.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1754633 3' similar to SW:CYT_COTJA P81061 CYSTATIN;
1881	14908	27806	0.98	1.0E-100	AB032994.1	NT	Homo sapiens mRNA for KIAA1168 protein, partial cds
2254	15268		1.25	1.0E-100	D83349.1	NT	Rat mRNA for short type PB-cadherin, complete cds
2717	15711	28728	1.98	1.0E-100	11418976	NT	Homo sapiens KIAA0957 protein (KIAA0957), mRNA
3031	16089		3.1	1.0E-100	D11078.1	NT	Homo sapiens RGH2 gene, retrovirus-like element
4238	17267	30154	1.46	1.0E-100	AF057354.1	NT	Homo sapiens myotubularin-related protein 1a mRNA, partial cds
4264	17283	30172	1.94	1.0E-100	4503792	NT	Homo sapiens follicle stimulating hormone receptor (FSHR) mRNA
5127	18136	31012	3.58	1.0E-100	5032104	NT	Homo sapiens small optic lobes (Drosophila) homolog (SOLH) mRNA
5127	18136	31013	3.58	1.0E-100	5032104	NT	Homo sapiens small optic lobes (Drosophila) homolog (SOLH) mRNA
5362	18467	31338	1.71	1.0E-100	BF244218.1	EST_HUMAN	601863164F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4080999 5'
5586	18682	31650	0.66	1.0E-100	AW075983.1	EST_HUMAN	xa8201.x1 NCI_CGAP_CML1 Homo sapiens cDNA clone IMAGE:2573305 3' similar to gb:X12433 PROTEIN PHPS1-2 (HUMAN);
5785	18877	32059	1.5	1.0E-100	AU118182.1	EST_HUMAN	AU118182 HEMBA1 Homo sapiens cDNA clone HEMBA1003046 5'
5839	18928	32113	1.29	1.0E-100	AF135116.1	NT	Homo sapiens NF-E2-related factor 3 gene, complete cds
5937	19023	32217	0.9	1.0E-100	X14890.1	NT	Human mRNA for plasma inter-alpha-trypsin inhibitor heavy chain H(3)
6287	19359	32595	0.89	1.0E-100	4557568	NT	Homo sapiens ER to nucleus signalling 1 (ERN1) mRNA
6287	19359	32596	0.89	1.0E-100	4557568	NT	Homo sapiens ER to nucleus signalling 1 (ERN1) mRNA
6576	19636		1.1	1.0E-100	5729867	NT	Homo sapiens hct domain and RLD 2 (HERC2), mRNA
6645	19703	32879	4.85	1.0E-100	AU140214.1	EST_HUMAN	AU140214 PLACE2 Homo sapiens cDNA clone PLACE2000137 5'
6704	19760	33039	0.61	1.0E-100	AU136800.1	EST_HUMAN	AU136800 PLACE1 Homo sapiens cDNA clone PLACE1005089 5'

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Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6843	19896	33190	1.35	1.0E-100	R10887.1	EST_HUMAN	yf38c08.s1 Soares fetal liver spleen 1NfLS Homo sapiens cDNA clone IMAGE:128134 3'
6834	20158	33478	1.08	1.0E-100	7382479	NT	Homo sapiens Rho GTPase activating protein 6 (ARHGAP6), transcript variant 4, mRNA
7019	20145	33462	0.96	1.0E-100	AA496841.1	EST_HUMAN	ae33b06.t1 Gessler Wilms tumor Homo sapiens cDNA clone IMAGE:887587 5' similar to TR:G487418
7019	20145	33463	0.96	1.0E-100	AA496841.1	EST_HUMAN	G487418 ACTIN FILAMENT-ASSOCIATED PROTEIN ;
7070	20092	33401	1.12	1.0E-100	BF376478.1	EST_HUMAN	ae33b06.t1 Gessler Wilms tumor Homo sapiens cDNA clone IMAGE:887587 5' similar to TR:G487418
7070	20092	33402	1.12	1.0E-100	BF376478.1	EST_HUMAN	G487418 ACTIN FILAMENT-ASSOCIATED PROTEIN ;
7078	20099	33410	6.82	1.0E-100	X04571.1	NT	ae33b06.t1 Gessler Wilms tumor Homo sapiens cDNA clone IMAGE:887587 5' similar to TR:G487418
7990	20929	34323	0.52	1.0E-100	U63139.1	NT	G487418 ACTIN FILAMENT-ASSOCIATED PROTEIN ;
7990	20929	34324	0.52	1.0E-100	U63139.1	NT	ae33b06.t1 Gessler Wilms tumor Homo sapiens cDNA clone IMAGE:887587 5' similar to TR:G487418
8877	21844	35286	11.86	1.0E-100	BF103853.1	EST_HUMAN	G487418 ACTIN FILAMENT-ASSOCIATED PROTEIN ;
8914	21880		5.3	1.0E-100	AL163203.2	NT	MR1-TN0046-060900-004-b05 TN0046 Homo sapiens cDNA
8968	22333	35763	0.59	1.0E-100	AU116951.1	EST_HUMAN	MR1-TN0046-060900-004-b05 TN0046 Homo sapiens cDNA
9368	22333	35764	0.59	1.0E-100	AU116951.1	EST_HUMAN	Human mRNA for kidney epidermal growth factor (EGF) precursor
9588	22550	36001	3.34	1.0E-100	AB040918.1	NT	Homo sapiens Rad50 (Rad50) mRNA, complete cds
9665	22822		2.44	1.0E-100	AI972388.1	EST_HUMAN	Homo sapiens Rad50 (Rad50) mRNA, complete cds
9788	21111	34511	2.04	1.0E-100	AW998611.1	EST_HUMAN	601947357F1 NIH_MGC 61 Homo sapiens cDNA clone IMAGE:3931310 5'
9842	22778		1.06	1.0E-100	AU127720.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C003
9942	22869	36331	2.29	1.0E-100	AB046946.1	NT	AU116951 HEMBA1 Homo sapiens cDNA clone HEMBA1000343 5'
9942	22869	36332	2.29	1.0E-100	AB046946.1	NT	AU116951 HEMBA1 Homo sapiens cDNA clone HEMBA1000343 5'
10203	23128	36614	1.47	1.0E-100	AW630487.1	EST_HUMAN	Homo sapiens mRNA for KIAA1626 protein, partial cds
10203	23128	36615	1.47	1.0E-100	AW630487.1	EST_HUMAN	Homo sapiens mRNA for KIAA1626 protein, partial cds
10364	23287	36764	0.46	1.0E-100	AV732101.1	EST_HUMAN	hh83c11.y1 NCI CGAP GU1 Homo sapiens cDNA clone IMAGE:2969396 5'
10368	23756	37256	1.94	1.0E-100	BF347519.1	EST_HUMAN	hh83c11.y1 NCI CGAP GU1 Homo sapiens cDNA clone IMAGE:2969396 5'
10924	23844		1.56	1.0E-100	Y10391.1	NT	AV732101 HTF Homo sapiens cDNA clone HTFBIG01 5'
11111	24071	37593	7.51	1.0E-100	BF327282.1	EST_HUMAN	602020554F1 NCI CGAP_Bn67 Homo sapiens cDNA clone IMAGE:4156165 5'
11618	24556	38118	1.78	1.0E-100	X94633.1	NT	Human endogenous retrovirus HERV-K, pol gene
11618	24556	38119	1.78	1.0E-100	X94633.1	NT	MRO-BN0070-270300-008-t11 BN0070 Homo sapiens cDNA
11681	24647	38223	3.57	1.0E-100	AF111170.3	NT	H sapiens CD97 gene exon 4
11681	24647	38224	3.57	1.0E-100	AF111170.3	NT	H sapiens CD97 gene exon 4
11712	13123	26021	1.96	1.0E-100	AL163247.2	NT	Homo sapiens 14q32 Jagged2 gene, complete cds; and unknown gene
11989	24866		2	1.0E-100	AF266285.1	NT	Homo sapiens chromosome 21 segment HS21C047
							Homo sapiens golgin-like protein (GLP) gene, complete cds

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12127	24996	38600	3.03	1.0E-100	AJ131034.1	NT	Homo sapiens clasp gene, exon 12
12128	24997	38601	1.65	1.0E-100	BE791491.1	EST_HUMAN	601586031F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3940423 5'
12177	25025	38622	15.03	1.0E-100	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
12307	25851		2.32	1.0E-100	BF446549.1	EST_HUMAN	7q88h03.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE: 3' similar to TR:Q21997 Q21997 COSMID R151. [2] TR:Q9UA08;
12488	25233	31799	2.58	1.0E-100	11545732	NT	Homo sapiens SH3-domain binding protein 1 (SH3BP1), mRNA
13084	25815	31691	8.6	1.0E-100	11417974	NT	Homo sapiens transcobalamin II; macrocytic anemia (TCN2), mRNA
78	13195	26118	1.19	1.0E-101	7110714	NT	Homo sapiens SEC14 (S. cerevisiae)-like 2 (SEC14L2), mRNA
78	13195	26119	1.19	1.0E-101	7110714	NT	Homo sapiens SEC14 (S. cerevisiae)-like 2 (SEC14L2), mRNA
687	13750	26676	2.53	1.0E-101	AB007915.2	NT	Homo sapiens mRNA for KIAA0446 protein, partial cds
705	13767	26702	6.85	1.0E-101	7110734	NT	Homo sapiens ventral anterior homeobox 2 (VAX2), mRNA
705	13767	26703	6.85	1.0E-101	7110734	NT	Homo sapiens ventral anterior homeobox 2 (VAX2), mRNA
772	13831	26778	1.48	1.0E-101	7657454	NT	Homo sapiens pascadillo (zebrafish) homolog 1, containing BRCT domain (PES1), mRNA
854	13910	26868	2.88	1.0E-101	4503914	NT	Homo sapiens phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthetase, phosphoribosylaminimidazole synthetase (GART) mRNA
924	13977	26929	1.22	1.0E-101	Z20656.1	NT	Homo sapiens of cardiac alpha-myosin heavy chain gene
987	14038	26994	7.23	1.0E-101	BF681218.1	EST_HUMAN	602158474F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4287291 5'
1055	14101	27051	0.78	1.0E-101	A1221878.1	EST_HUMAN	qg99e09.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1843336 3'
1586	14619	27594	1.34	1.0E-101	5921460	NT	Homo sapiens butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA
1586	14619	27595	1.34	1.0E-101	5921460	NT	Homo sapiens butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA
1761	14790	27778	1.12	1.0E-101	7662183	NT	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
1761	14790	27777	1.12	1.0E-101	7662183	NT	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
1982	14884	27987	1.58	1.0E-101	4502996	NT	Homo sapiens carboxypeptidase A1 (pancreatic) (CPA1) mRNA
2072	15089	28107	1.07	1.0E-101	BE843070.1	EST_HUMAN	RC3-ST0281-160600-016-h09 ST0281 Homo sapiens cDNA
2357	15991	28387	1.17	1.0E-101	5729892	NT	Homo sapiens A kinase (PRKA) anchor protein 6 (AKAP6), mRNA
2622	15621	28646	5.3	1.0E-101	X72893.1	NT	H sapiens EWS gene, exon 5
2753	15745	28763	2.07	1.0E-101	AJ237744.1	NT	Homo sapiens RIBLIR gene (partial), exon 12
2753	15745	28764	2.07	1.0E-101	AJ237744.1	NT	Homo sapiens RIBLIR gene (partial), exon 12
2967	16025		13.42	1.0E-101	AJ252312.1	NT	Homo sapiens genomic downstream Rhesus box
3216	16271	29194	1.69	1.0E-101	4885270	NT	Homo sapiens gamma-glutamyltransferase 1 (GGT1) mRNA
3256	16309		2.49	1.0E-101	BF036327.1	EST_HUMAN	601458531F1 NIH_MGC_88 Homo sapiens cDNA clone IMAGE:3862086 5'
3392	16441	29367	1.73	1.0E-101	AW965566.1	EST_HUMAN	EST377629 IMAGE resequences, MAGI Homo sapiens cDNA
3411	15745	28763	2.03	1.0E-101	AJ237744.1	NT	Homo sapiens RIBLIR gene (partial), exon 12

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3411	15745	28764	2.03	1.0E-101	AJ237744.1	NT	Homo sapiens RIBLIR gene (partial), exon 12
3890	16930	29839	4.58	1.0E-101	AB022785.1	NT	Homo sapiens ASH2L gene, complete cds, similar to Drosophila ash2 gene
5072	18082	30963	1.54	1.0E-101	5921460	NT	Homo sapiens butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA
5072	18082	30964	1.54	1.0E-101	5921460	NT	Homo sapiens butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA
5391	18494	31371	2.08	1.0E-101	AW965139.1	EST_HUMAN	EST377212 IMAGE resequences, MAGI Homo sapiens cDNA
6118	19196	32420	3.59	1.0E-101	7427512	NT	Homo sapiens cytoplasmic linker 2 (CYLN2), mRNA
6118	19196	32421	3.59	1.0E-101	7427512	NT	Homo sapiens cytoplasmic linker 2 (CYLN2), mRNA
6853	19906	33202	1.16	1.0E-101	11430734	NT	Homo sapiens carbonic anhydrase VII (CA7), mRNA
7488	20453		1.16	1.0E-101	11545780	NT	Homo sapiens hypothetical protein FLJ22087 (FLJ22087), mRNA
7542	20505	33863	4.82	1.0E-101	AF208970.1	NT	Homo sapiens Kruppel-type zinc finger protein (PEG3) mRNA, alternative splice form 4, partial cds
7542	20505	33864	4.82	1.0E-101	AF208970.1	NT	Homo sapiens Kruppel-type zinc finger protein (PEG3) mRNA, alternative splice form 4, partial cds
7717	20674	34040	7.39	1.0E-101	AW008475.1	EST_HUMAN	W55912x1 NCI_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2533487 3'
7826	20774		1.76	1.0E-101	BE257384.1	EST_HUMAN	601109217F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3349901 5'
7993	20932	34327	6.3	1.0E-101	BF330759.1	EST_HUMAN	RC1-BT0313-220700-018-f12 BT0313 Homo sapiens cDNA
8245	21214	34621	1.07	1.0E-101	BE275821.1	EST_HUMAN	601121621F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3345869 5'
8245	21214	34622	1.07	1.0E-101	BE275821.1	EST_HUMAN	601121621F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3345869 5'
8390	21359	34766	5.11	1.0E-101	BF029174.1	EST_HUMAN	601764689F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3996837 5'
8665	21633	35053	0.83	1.0E-101	AW630070.1	EST_HUMAN	h174g10.y1 NCI_CGAP_GU1 Homo sapiens cDNA clone IMAGE:2968578 5' similar to gb:J03143
8665	21633	35054	0.83	1.0E-101	AW630070.1	EST_HUMAN	INTERFERON-GAMMA RECEPTOR ALPHA CHAIN PRECURSOR (HUMAN);
9364	22329	35758	0.93	1.0E-101	AA036800.1	EST_HUMAN	h174g10.y1 NCI_CGAP_GU1 Homo sapiens cDNA clone IMAGE:2968578 5' similar to gb:J03143
9685	22638	36094	0.82	1.0E-101	AB037772.1	EST_HUMAN	INTERFERON-GAMMA RECEPTOR ALPHA CHAIN PRECURSOR (HUMAN);
9685	22638	36095	0.82	1.0E-101	AB037772.1	EST_HUMAN	zK29g08.t1 Scores_pregnant uterus_NIHPU Homo sapiens cDNA clone IMAGE:471998 5' similar to
9817	21139	34544	19.42	1.0E-101	X60069.1	NT	PIR:S54640 S54640 YD935.03c protein - yeast;
9817	21139	34545	19.42	1.0E-101	X60069.1	NT	Homo sapiens mRNA for KIAA1351 protein, partial cds
9830	22679	36135	18.13	1.0E-101	9845492	NT	Homo sapiens mRNA for KIAA1351 protein, partial cds
10115	23041	36520	13.91	1.0E-101	BE19667.1	EST_HUMAN	Human mRNA for pancreatic gamma-glutamyltransferase
10115	23041	36521	13.91	1.0E-101	BE19667.1	EST_HUMAN	Human mRNA for pancreatic gamma-glutamyltransferase
10254	23179	36666	0.61	1.0E-101	10863960	NT	Homo sapiens gamma-glutamyltransferase 1 (GGT1), transcript variant 3, mRNA
10773	23694	37192	1.96	1.0E-101	11429127	NT	601472808T1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3875953 3'
10807	23728	37229	0.56	1.0E-101	AI570283.1	EST_HUMAN	601472808T1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3875953 3'
							Homo sapiens potassium channel, subfamily K, member 10 (KCNK10), mRNA
							Homo sapiens Janus kinase 2 (a protein tyrosine kinase) (JAK2), mRNA
							to77d11.x1 NCI_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2184309 3' similar to gb:M28328
							KERATIN, TYPE I CYTOSKELETAL 18 (HUMAN);

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10807	23728	37230	0.56	1.0E-101	AI570283.1	EST_HUMAN	to77d11.x1 NCI_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2184309 3' similar to gb:M26326
10914	23834	37349	0.64	1.0E-101	BE973648.1	EST_HUMAN	KERATIN, TYPE I CYTOSKELETAL 18 (HUMAN);
10914	23834	37350	0.64	1.0E-101	BE973648.1	EST_HUMAN	601680825F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:3950887 5'
11225	24178	37705	2.38	1.0E-101	S38327.1	NT	601680825F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:3950887 5'
12083	24956	38550	162.1	1.0E-101	AA321316.1	EST_HUMAN	branched-chain alpha-keto acid dehydrogenase complex E1 alpha subunit [human, Genomic, 195 nt, segment 8 of 9]
12735	25387	38550	7.64	1.0E-101	AW939051.1	EST_HUMAN	EST23783 Bone marrow Homo sapiens cDNA 5' end similar to defensin 1
41	13161	26064	0.73	1.0E-102	AF012872.1	NT	QV1-DT0068-240200-085-a01 DT0068 Homo sapiens cDNA
341	13430	26351	5.2	1.0E-102	AL163303.2	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (p14K230) mRNA, complete cds
778	13635	26781	1.07	1.0E-102	4557534	NT	Homo sapiens chromosome 21 segment HS21C103
1119	14163	27114	1.9	1.0E-102	M10976.1	NT	Homo sapiens down-regulated in adenoma (DRA) mRNA
1273	14308	27268	2.27	1.0E-102	11437146	NT	Human endogenous retroviral DNA (4-1), complete retroviral segment
1273	14308	27269	2.27	1.0E-102	11437146	NT	Homo sapiens solute carrier family 2 (facilitated glucose transporter), member 9 (SLC2A9), mRNA
1417	14450	27423	200.41	1.0E-102	BE408447.1	EST_HUMAN	Homo sapiens solute carrier family 2 (facilitated glucose transporter), member 9 (SLC2A9), mRNA
2318	15329	28352	1.36	1.0E-102	AI1124689.1	EST_HUMAN	601299882F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3629601 5'
2318	15329	28353	1.36	1.0E-102	AI1124689.1	EST_HUMAN	am60c10.x1 Johnston frontal cortex Homo sapiens cDNA clone IMAGE:1539854 3' similar to
3037	16095	29047	0.73	1.0E-102	Y13932.1	NT	SW:GG95_HUMAN Q08379 GOLGIN-95 ;
3078	16135	29047	1.48	1.0E-102	7661979	NT	SW:GG95_HUMAN Q08379 GOLGIN-95 ;
3150	16207	29120	3.24	1.0E-102	AU141005.1	EST_HUMAN	Homo sapiens PRKY exon 7
3150	16207	29121	3.24	1.0E-102	AU141005.1	EST_HUMAN	Homo sapiens KIAA0187 gene product (KIAA0187), mRNA
4260	17289	30170	1.83	1.0E-102	AL163207.2	NT	AU141005 PLACE4 Homo sapiens cDNA clone PLACE4000650 5'
4441	17467	30356	1.95	1.0E-102	BE251310.1	EST_HUMAN	AU141005 PLACE4 Homo sapiens cDNA clone PLACE4000650 5'
5157	18167	31045	1	1.0E-102	R66488.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C007
5445	18547	31460	1.52	1.0E-102	AF067133.1	NT	601107843F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3343882 5'
5842	18932	32163	3.3	1.0E-102	AB034951.1	NT	y32c04.r1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:140934 5'
5882	18971	32164	3.45	1.0E-102	7705398	NT	Homo sapiens protein phosphatase-1 regulatory subunit 7 (PPP1R7) gene, exon 7
5889	18977	32169	0.98	1.0E-102	11433046	NT	Homo sapiens HSC84 mRNA for heat shock cognate protein 54, complete cds
6425	19492	32744	2.74	1.0E-102	AI458825.1	EST_HUMAN	Homo sapiens histone deacetylase 7 (HDAC7), mRNA
7283	20016	33319	0.5	1.0E-102	AW451643.1	EST_HUMAN	Homo sapiens histone deacetylase 7 (HDAC7), mRNA
							Homo sapiens histone deacetylase 7 (HDAC7), mRNA
							Homo sapiens histone deacetylase 7 (HDAC7), mRNA
							Homo sapiens hct domain and RLD 2 (HERC2), mRNA
							ar62f09.x1 Barstead colon HPLRB7 Homo sapiens cDNA clone IMAGE:2151785 3' similar to TR:Q13137
							Q13137 NDP52 ;
							UI-H-B13-dj-d-10-Q-UJ.s1 NCI_CGAP_Sub5 Homo sapiens cDNA clone IMAGE:2736835 3'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7343	20314	33658	0.75	1.0E-102	BE729323.1	EST_HUMAN	601561905F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3831241 5'
7371	20341	33693	0.77	1.0E-102	BE386106.1	EST_HUMAN	60127215F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3618243 5'
7494	20459	33818	0.54	1.0E-102	AB023177.1	NT	Homo sapiens mRNA for KIAA0960 protein, partial cds
7578	20540	33899	8.85	1.0E-102	AJ238994.1	NT	Homo sapiens mRNA for Centaurin-alpha2 protein
7886	20830	34208	2.64	1.0E-102	AV710738.1	EST_HUMAN	AV710738 Cu Homo sapiens cDNA clone CuAAKD03 5'
8168	21106	34505	0.58	1.0E-102	10947053	NT	Homo sapiens ankyrin 2, neuronal (ANK2), transcript variant 2, mRNA
8565	21533	34953	3.61	1.0E-102	BE763051.1	EST_HUMAN	QV3-NT0025-210600-238-h08 NT0026 Homo sapiens cDNA
8645	21613	35035	0.91	1.0E-102	BE910555.1	EST_HUMAN	601501107F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3903145 5'
8839	21806	35223	1.22	1.0E-102	AV694817.1	EST_HUMAN	AV694817 GKC Homo sapiens cDNA clone GKCEEE11 5'
8839	21808	35224	1.22	1.0E-102	AV694817.1	EST_HUMAN	AV694817 GKC Homo sapiens cDNA clone GKCEEE11 5'
8950	21816	35340	0.74	1.0E-102	AB007923.1	NT	Homo sapiens mRNA for KIAA0454 protein, partial cds
9283	22249	35679	0.73	1.0E-102	BE388063.1	EST_HUMAN	601283770F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3605536 5'
9283	22249	35680	0.73	1.0E-102	BE388063.1	EST_HUMAN	w63b06.x1 NCI_CCAP_Kid12 Homo sapiens cDNA clone IMAGE:2397971 3' similar to contains MER4.1
9608	22610	36062	0.56	1.0E-102	A1762856.1	EST_HUMAN	MER4 MER4 repetitive element;
9636	22580	36030	0.89	1.0E-102	AV755842.1	EST_HUMAN	AV755842 BM Homo sapiens cDNA clone BMFAUD06 5'
9678	22629	36092	2.15	1.0E-102	T70393.1	EST_HUMAN	y413d07.1 Soares fetal liver spleen 1NLS Homo sapiens cDNA clone IMAGE:67021 5'
9678	22629	36083	2.15	1.0E-102	T70393.1	EST_HUMAN	y413d07.1 Soares fetal liver spleen 1NLS Homo sapiens cDNA clone IMAGE:67021 5'
9768	22707	36163	3.86	1.0E-102	AU124629.1	EST_HUMAN	AU124629 NT2RM4 Homo sapiens cDNA clone NT2RM4000309 5'
10748	23670		0.71	1.0E-102	AF163715.1	NT	Homo sapiens phospholipid scramblase 1 gene, exon 1 and 5' flanking region
10798	23719	37221	0.43	1.0E-102	11425430	NT	Homo sapiens myomesin (M-protein) 2 (165kD) (MYOM2), mRNA
10798	23719	37222	0.43	1.0E-102	11425430	NT	Homo sapiens myomesin (M-protein) 2 (165kD) (MYOM2), mRNA
10835	23755	37254	3	1.0E-102	A1905037.1	EST_HUMAN	RC-BT074-260499-014 BT074 Homo sapiens cDNA
10835	23755	37255	3	1.0E-102	A1905037.1	EST_HUMAN	RC-BT074-260499-014 BT074 Homo sapiens cDNA
10898	23816	37323	1.15	1.0E-102	AA970786.1	EST_HUMAN	on67h04.s1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1560823 3' similar to
11410	24354	37887	2.36	1.0E-102	4507822	NT	SW:CAV2_HUMAN P51636 CAVEOLIN-2, [1];
11410	24354	37888	2.36	1.0E-102	4507822	NT	Homo sapiens UDP glycosyltransferase 2 family, polypeptide B11 (UGT2B11) mRNA
11732	24618	38195	2.7	1.0E-102	BF359243.1	EST_HUMAN	Homo sapiens UDP glycosyltransferase 2 family, polypeptide B11 (UGT2B11) mRNA
12019	24886	38404	4.74	1.0E-102	U41302.1	NT	Human chromosome 16 creatine transporter (SLC6A8) and (CDM) paralogous genes, complete cds
12079	24951	38546	5.67	1.0E-102	U57053.1	NT	Human unconventional myosin-ID (MYO1F) gene, partial cds
12182	25030		2.49	1.0E-102	AL163280.2	NT	Homo sapiens chromosome 21 segment HS21C080
12177	25380	31746	4.15	1.0E-102	AW300862.1	EST_HUMAN	xk07c12.x1 NCI_CGAP_Co20 Homo sapiens cDNA clone IMAGE:2666038 3'

Table 4

Single Exon Probes Expressed In Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
13028	25578		1.59	1.0E-102	J05235.1	NT	Human gamma-glutamyl transpeptidase mRNA, complete cds
70	13188	26107	1.14	1.0E-103	BE608158.1	EST_HUMAN	601500405F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3902305 5'
70	13188	26108	1.14	1.0E-103	BE608158.1	EST_HUMAN	601500405F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3902305 5'
100	13216	26140	9.55	1.0E-103	DB7078.2	NT	Homo sapiens mRNA for KIAA0235 protein, partial cds
209	13310	26237	4.18	1.0E-103	5453793	NT	Homo sapiens nuclear protein (KKEID repeat) (NOP56) mRNA
982	14033	26985	1.02	1.0E-103	AJ278348.1	NT	Homo sapiens mRNA for pregnancy-associated plasma protein-E (PAPPE) gene
1248	14284	27250	16.75	1.0E-103	BE877541.1	EST_HUMAN	601485388F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3887876 5'
1600	14632	27608	2.39	1.0E-103	AF012872.1	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (p4K230) mRNA, complete cds
1992	15013	28018	1.4	1.0E-103	4502428	NT	Homo sapiens bone morphogenetic protein 8 (osteogenic protein 2) (BMP8) mRNA
1992	15013	28019	1.4	1.0E-103	4502428	NT	Homo sapiens bone morphogenetic protein 8 (osteogenic protein 2) (BMP8) mRNA
2313	15325	28348	0.93	1.0E-103	AU134991.1	EST_HUMAN	AU134991 PLACE1 Homo sapiens cDNA clone PLACE1000965 5'
2457	15461	28484	1.66	1.0E-103	AF060568.1	NT	Homo sapiens promyelocytic leukemia zinc finger protein (PLZF) gene, complete cds
2601	15601	28622	1.07	1.0E-103	BF528379.1	EST_HUMAN	602041882F1 NCI_CGAP_Bn67 Homo sapiens cDNA clone IMAGE:4178429 5'
2601	15601	28623	1.07	1.0E-103	BF528379.1	EST_HUMAN	602041882F1 NCI_CGAP_Bn67 Homo sapiens cDNA clone IMAGE:4178429 5'
2627	15626	28650	1.01	1.0E-103	N32770.1	EST_HUMAN	yw91d08.s1 Soares_placenta_8to9weeks_2NBHP8t68W Homo sapiens cDNA clone IMAGE:259598 3'
3082	16139		2.5	1.0E-103	BE744722.1	EST_HUMAN	601573113F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3934315 5'
3391	16440	29366	4.42	1.0E-103	AW298245.1	EST_HUMAN	UI-H-BW0-ajl-h-11-Q-UJ.s1 NCI_CGAP_Sub6 Homo sapiens cDNA clone IMAGE:2733185 3'
3453	16499	29416	1.29	1.0E-103	AB040892.1	NT	Homo sapiens mRNA for KIAA1489 protein, partial cds
3767	16809		5.31	1.0E-103	AF023861.1	NT	Macaca mulatta cyclophilin A mRNA, complete cds
3808	16848	29756	1.28	1.0E-103	AA485663.1	EST_HUMAN	ab10d12.s1 Stragene lung (#937210) Homo sapiens cDNA clone IMAGE:840407 3' similar to contains element LTR10 repetitive element ;
3841	16881	29785	3.16	1.0E-103	11430878	NT	Homo sapiens neuropilin 1 (NRP1), mRNA
4029	17067	29898	2.9	1.0E-103	T23683.1	EST_HUMAN	seq340 b4HB3MA-Cot109+10-Bio Homo sapiens cDNA clone b4HB3MA-Cot109+10-Bio-7 3'
4858	17875	30763	0.83	1.0E-103	BE600203.1	EST_HUMAN	601673135F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3953953 5'
6044	19126	32332	0.96	1.0E-103	BF569527.1	EST_HUMAN	602186023F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4310573 5'
6052	19133	32342	1.67	1.0E-103	AF179995.1	NT	Homo sapiens septin 2 (SEP2) mRNA, partial cds
6398	19466	32712	0.73	1.0E-103	11435053	NT	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
6398	19466	32713	0.73	1.0E-103	11435053	NT	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
6602	19661	32933	0.79	1.0E-103	AW954566.1	EST_HUMAN	EST366636 MAGC resequences, MAGC Homo sapiens cDNA
6602	19661	32934	0.79	1.0E-103	AW954566.1	EST_HUMAN	EST366636 MAGC resequences, MAGC Homo sapiens cDNA
6647	19705	32981	0.53	1.0E-103	10947051	NT	Homo sapiens ankyrin 2, neuronal (ANK2), transcript variant 1, mRNA
6748	25687	33081	1.28	1.0E-103	AA781442.1	EST_HUMAN	aj26e03.s1 Soares_testis_NHT Homo sapiens cDNA clone 1391452 3'
6787	19842	33125	0.98	1.0E-103	AF053480.1	NT	Homo sapiens glycine receptor alpha 2 subunit (GLRA2) gene, exon 4

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Table 4
Single Exon Probes Expressed In Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6879	19931	33229	1.47	1.0E-103	AI590071.1	EST_HUMAN	hm58b05.x1 NCL_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2162289 3' similar to TR:Q13769 Q13769 ANONYMOUS.;
6879	19931	33230	1.47	1.0E-103	AI590071.1	EST_HUMAN	hm58b05.x1 NCL_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2162289 3' similar to TR:Q13769 Q13769 ANONYMOUS.;
7024	18356	31276	1.73	1.0E-103	5032282	NT	Homo sapiens dystrophin (muscular dystrophy, Duchenne and Becker types), includes DXS142, DXS164, DXS206, DXS230, DXS239, DXS268, DXS269, DXS270, DXS272 (DMD), transcript variant Dp427m, mRNA
7024	18356	31276	1.73	1.0E-103	5032282	NT	Homo sapiens dystrophin (muscular dystrophy, Duchenne and Becker types), includes DXS142, DXS164, DXS206, DXS230, DXS239, DXS268, DXS269, DXS270, DXS272 (DMD), transcript variant Dp427m, mRNA
7161	18393	31237	1.62	1.0E-103	11431100	NT	Homo sapiens ribosomal protein L3-like (RPL3L), mRNA
7234	20255	33589	1.06	1.0E-103	AJ289880.1	NT	Homo sapiens KIAA0851 gene (partial), X13 gene and LZTFL1 gene
7437	20404	33758	2.68	1.0E-103	AW965776.1	EST_HUMAN	EST1377849 IMAGE resequences, MAGI Homo sapiens cDNA
7556	20519	33874	3.47	1.0E-103	BE748158.1	EST_HUMAN	601571537F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:3838545 5'
8051	20988	34384	3.69	1.0E-103	AI590071.1	EST_HUMAN	hm58b05.x1 NCL_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2162289 3' similar to TR:Q13769 Q13769 ANONYMOUS.;
8051	20988	34385	3.69	1.0E-103	AI590071.1	EST_HUMAN	hm58b05.x1 NCL_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2162289 3' similar to TR:Q13769 Q13769 ANONYMOUS.;
8632	21600	35022	0.43	1.0E-103	T31080.1	EST_HUMAN	EST127193 Human Brain Homo sapiens cDNA 5' end similar to None
8968	21934	35369	0.92	1.0E-103	AU140344.1	EST_HUMAN	AU140344 PLACE2 Homo sapiens cDNA clone PLACE2000374 5'
8968	21934	35360	0.92	1.0E-103	AU140344.1	EST_HUMAN	AU140344 PLACE2 Homo sapiens cDNA clone PLACE2000374 5'
9051	22017	35441	1.06	1.0E-103	BF109244.1	EST_HUMAN	7160e03.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3525884 3' similar to SW:PTNF_HUMAN Q16825 PROTEIN-TYROSINE PHOSPHATASE D1;
9463	22427	35865	2.86	1.0E-103	6005921	NT	Homo sapiens triple functional domain (PTPRF interacting) (TRIO), mRNA
9463	22427	35866	2.86	1.0E-103	6005921	NT	Homo sapiens triple functional domain (PTPRF interacting) (TRIO), mRNA
9503	22467	35908	1.13	1.0E-103	AA581086.1	EST_HUMAN	nd13c02.s1 NCL_CGAP_Ov1 Homo sapiens cDNA clone IMAGE:800162 3' similar to gb:L02428 26S PROTEASE SUBUNIT 4 (HUMAN);
9544	22507	35956	0.48	1.0E-103	AA774980.1	EST_HUMAN	ae84d12.s1 Striatum schizo brain S11 Homo sapiens cDNA clone IMAGE:970871 3' similar to gb:X03747_cds1 SODIUMPOTASSIUM-TRANSPORTING ATPASE BETA-1 (HUMAN);
10418	23340	36826	1.28	1.0E-103	Z37976.1	NT	H. sapiens mRNA for latent transforming growth factor-beta binding protein (LTBP-2)
10459	23381	36874	1.81	1.0E-103	AW963676.1	EST_HUMAN	EST1375749 IMAGE resequences, MAGH Homo sapiens cDNA
10598	23520	37012	10.03	1.0E-103	AI878956.1	EST_HUMAN	au51g04.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2518326 5' similar to TR:O15046 O15046 KIAA0338;

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11004	23970	37494	1.64	1.0E-103	BE549706.1	EST_HUMAN	7b41f03.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3230813 3' similar to gb:M69043 MAJOR HISTOCOMPATIBILITY COMPLEX ENHANCER-BINDING PROTEIN (HUMAN);
11085	24046	37568	3.99	1.0E-103	AI702759.1	EST_HUMAN	o102d06.y6 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1522283 5' similar to TR:Q62084 Q62084
11183	24139	37672	1.99	1.0E-103	11424061	NT	PHOSPHOLIPASE C NEIGHBORING ;
11183	24139	37673	1.99	1.0E-103	11424081	NT	Homo sapiens AXL receptor tyrosine kinase (AXL), mRNA
11341	24291		1.48	1.0E-103	BE671418.1	EST_HUMAN	Homo sapiens AXL receptor tyrosine kinase (AXL), mRNA
11570	24309	38066	6	1.0E-103	BE885279.1	EST_HUMAN	7e50f08.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3285927 3' similar to gb:J05272 INOSINE-5'-MONOPHOSPHATE DEHYDROGENASE 1 (HUMAN);
11702	24667	38244	2.59	1.0E-103	AU136283.1	EST_HUMAN	601506347F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3908147 5'
11774	23929	37450	7.57	1.0E-103	L43810.1	NT	AU136283 PLACE1 Homo sapiens cDNA clone PLACE1003923 5'
11980	24857		1.47	1.0E-103	AB024759.1	NT	Homo sapiens polycystic kidney disease (PKD1) gene, exons 27-30
12047	24920	38516	2.25	1.0E-103	BE844611.1	EST_HUMAN	Homo sapiens TSA305 gene, exon 16
12178	25026		1.88	1.0E-103	AF224669.1	NT	7e8a10.x1 Soares NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3287610 3' similar to contains MER29.13 MER29 repetitive element ;
12208	25049		1.95	1.0E-103	11526291	NT	Homo sapiens mannosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3 (UBE2D3) genes, complete cds
12410	25183	31820	4.32	1.0E-103	AB011399.1	NT	Homo sapiens hypophthalmic protein FLJ20454 (FLJ20454), mRNA
236	13336	26260	1.65	1.0E-104	AL037549.3	EST_HUMAN	Homo sapiens gene for AF-6, complete cds
236	13336	26261	1.65	1.0E-104	AL037549.3	EST_HUMAN	DKFZp564H1072.1 564 (synonym: hibr2) Homo sapiens cDNA clone DKFZp564H1072 5'
1905	14829	27925	1.86	1.0E-104	4502428	NT	DKFZp564H1072.1 564 (synonym: hibr2) Homo sapiens cDNA clone DKFZp564H1072 5'
2203	15218	28238	2.52	1.0E-104	AA132975.1	EST_HUMAN	Homo sapiens bone morphogenetic protein 8 (osteo-genic protein 2) (BMP8) mRNA
2214	15228	28251	2.87	1.0E-104	BE744628.1	EST_HUMAN	zo22c06.s1 Stratagene colon (#937204) Homo sapiens cDNA clone IMAGE:587626 3' similar to gb:Z14116_mn1 CD59 GLYCOPROTEIN PRECURSOR (HUMAN);
2377	15385	28408	1.02	1.0E-104	BF334221.1	EST_HUMAN	601577460F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3926438 5'
2377	15385	28409	1.02	1.0E-104	BF334221.1	EST_HUMAN	RC1-CT0249-110900-214-f12 CT0249 Homo sapiens cDNA
2444	15450	28469	2.43	1.0E-104	Y11151.1	NT	RC1-CT0249-110900-214-f12 CT0249 Homo sapiens cDNA
2882	15941	28858	7.18	1.0E-104	M34671.1	NT	Homo sapiens ARP2 (actin-related protein 2, yeast) homolog (ACTR2), mRNA
2927	15985		2.84	1.0E-104	Y11151.1	NT	Human lymphocytic antigen CD59/MEP43 mRNA, complete cds
3277	16331	29252	0.94	1.0E-104	AU133926.1	EST_HUMAN	H. sapiens gene encoding phenylpyruvate tautomerase II
3402	16451		1.88	1.0E-104	AA319436.1	EST_HUMAN	AU133926 OVARG1 Homo sapiens cDNA clone OVARG1000936 5'
3615	16659	29577	0.91	1.0E-104	AB033102.1	NT	EST21668 Adrenal gland tumor Homo sapiens cDNA 5' end
3816	16659	29578	0.9	1.0E-104	AB033102.1	NT	Homo sapiens mRNA for KIAA1276 protein, partial cds
3963	17003	29917	0.94	1.0E-104	AB032998.1	NT	Homo sapiens mRNA for KIAA1278 protein, partial cds

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4156	17187	30075	0.86	1.0E-104	F11745.1	EST_HUMAN	HSC31A071 normalized infant brain cDNA Homo sapiens cDNA clone c-31a07
4404	17432	30317	4.11	1.0E-104	X02761.1	NT	Human mRNA for fibronectin (FN precursor)
4639	17660	30547	1.44	1.0E-104	AF231920.1	NT	Homo sapiens chromosome 21 unknown mRNA
4639	17660	30548	1.44	1.0E-104	AF231920.1	NT	Homo sapiens chromosome 21 unknown mRNA
5255	18263	31132	1.02	1.0E-104	4885570	NT	Homo sapiens novel centrosomal protein RanBPM (RANBPM), mRNA
5262	18297	31158	0.93	1.0E-104	AF202314.1	NT	Homo sapiens erythropoietin (EPO) gene, exons 4 and 5 and complete cds
5292	18297	31159	0.93	1.0E-104	AF202314.1	NT	Homo sapiens erythropoietin (EPO) gene, exons 4 and 5 and complete cds
6050	19131	32338	1.44	1.0E-104	U43379.1	NT	Human Down Syndrome region of chromosome 21 DNA
6050	19131	32339	1.44	1.0E-104	U43379.1	NT	Human Down Syndrome region of chromosome 21 DNA
6100	19178	32398	0.99	1.0E-104	AB017332.1	NT	Homo sapiens alk3 mRNA for Aurka/Pl1-related kinase 3, complete cds
6611	19669	32945	24.48	1.0E-104	AI768797.1	EST_HUMAN	w03b12.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2401727 3' similar to TR:Q14145 Q14145 KIAA0132 PROTEIN; contains element LTR7 repetitive element
6611	19669	32946	24.48	1.0E-104	AI768797.1	EST_HUMAN	w03b12.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2401727 3' similar to TR:Q14145 Q14145 KIAA0132 PROTEIN; contains element LTR7 repetitive element
6805	19859	33146	0.92	1.0E-104	7708512	NT	Homo sapiens PDZ domain-containing guanine nucleotide exchange factor 1 (LOC51736), mRNA
6973	20196	33523	1.53	1.0E-104	BE314182.1	EST_HUMAN	601150451F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3503220 5'
6973	20196	33524	1.53	1.0E-104	BE314182.1	EST_HUMAN	601150451F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3503220 5'
7435	20402	33756	2.14	1.0E-104	11425572	NT	Homo sapiens adaptor-related protein complex 2, beta 1 subunit (AP2B1), mRNA
8944	21910	35355	0.74	1.0E-104	BF509244.1	EST_HUMAN	UJ-H-B14-eww-b-09-0-UJ.s1 NCI_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3086176 3'
9522	22485	35932	3.56	1.0E-104	BF448230.1	EST_HUMAN	ncd16g11.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3365948 3'
9618	22562	36010	0.63	1.0E-104	AA682308.1	EST_HUMAN	z99b05.s1 Soares_fetal_liver_spleen_INFLS_S1 Homo sapiens cDNA clone IMAGE:462897 3'
9639	22583		1.21	1.0E-104	I74219.1	EST_HUMAN	yc83102.F1 Soares Infant brain T1N1B Homo sapiens cDNA clone IMAGE:22440 5'
9669	22822	36073	4.58	1.0E-104	AF091395.1	NT	Homo sapiens Trio isoform mRNA, complete cds
9669	22822	36074	4.58	1.0E-104	AF091395.1	NT	Homo sapiens Trio isoform mRNA, complete cds
9766	21119	34520	4.97	1.0E-104	BF352841.1	EST_HUMAN	IL3-HT0619-080900-249-F07 HT0619 Homo sapiens cDNA
9766	21119	34521	4.97	1.0E-104	BF352841.1	EST_HUMAN	IL3-HT0619-080900-249-F07 HT0619 Homo sapiens cDNA
10111	23037	36516	0.68	1.0E-104	AW103848.1	EST_HUMAN	xd76d02.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2603523 3' similar to TR:Q24116
10111	23037	36517	0.68	1.0E-104	AW103848.1	EST_HUMAN	Q24116 HYPOTHETICAL 29.4 KD PROTEIN ;
10307	23231	36714	0.62	1.0E-104	AF113514.1	NT	Q24116 HYPOTHETICAL 29.4 KD PROTEIN ;
10453	23375	36867	3.35	1.0E-104	BE791713.1	EST_HUMAN	Homo sapiens histone acetyltransferase MORF mRNA, complete cds
10453	23375	36868	3.35	1.0E-104	BE791713.1	EST_HUMAN	601581503F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3935977 5'
10765	23886	37182	1.36	1.0E-104	AV728070.1	EST_HUMAN	601581503F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3935977 5'
							AV728070 HTC Homo sapiens cDNA clone HTCBYA07 5'

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10808	23729	37231	5.11	1.0E-104	AU130765.1	EST_HUMAN	AU130765 NT2RP3 Homo sapiens cDNA clone NT2RP3001398 5'
10917	23837	37353	4.5	1.0E-104	U66535.1	NT	Human beta4-integrin (ITGB4) gene, exons 19,20,21,22,23,24 and 25
10931	23851		0.82	1.0E-104	11427757	NT	Homo sapiens KIAA0849 gene product (KIAA0849), mRNA
11629	24567	38129	3.09	1.0E-104	BE720191.1	EST_HUMAN	RCO-HT0885-310700-021-b09 HT0885 Homo sapiens cDNA
11629	24567	38130	3.09	1.0E-104	BE720191.1	EST_HUMAN	RCO-HT0885-310700-021-b09 HT0885 Homo sapiens cDNA
11655	24592	38165	3.48	1.0E-104	BF684288.1	EST_HUMAN	602141215F1 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:4302507 5'
12988	25548		1.43	1.0E-104	BE393892.1	EST_HUMAN	601312181F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3658678 5'
278	15810	26302	1.61	1.0E-105	4502166	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
425	13120	28018	9.28	1.0E-105	4505150	NT	Homo sapiens Meis1 (mouse) homolog (MEIS1) mRNA
596	13663	26576	3.89	1.0E-105	AF032897.1	NT	Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds
596	13663	26577	3.89	1.0E-105	AF032897.1	NT	Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds
1689	14720		2.33	1.0E-105	AB020981.1	NT	Homo sapiens mRNA for cyclin B2, complete cds
1837	14864	27862	1.47	1.0E-105	AL163280.2	NT	Homo sapiens chromosome 21 segment HS21C080
1943	14967	27964	2.09	1.0E-105	D50918.1	NT	Human mRNA for KIAA0128 gene, partial cds
2199	15214	28234	2	1.0E-105	AA318369.1	EST_HUMAN	EST120609 Spleen I Homo sapiens cDNA 5' end similar to autoimmune antigen Ku, p70/p80 subunit
2731	15725		1.07	1.0E-105	AA584808.1	EST_HUMAN	ncf0d05.st NCJ CGAP_Phe1 Homo sapiens cDNA clone IMAGE:1100265 3'
3018	16076		3.14	1.0E-105	AJ229041.1	NT	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22; segment 1/3
3362	16412	29336	1.11	1.0E-105	7304922	NT	Homo sapiens bromodomain adjacent to zinc finger domain, 2B (BAZ2B), mRNA
3362	16412	29337	1.11	1.0E-105	7304922	NT	Homo sapiens bromodomain adjacent to zinc finger domain, 2B (BAZ2B), mRNA
4125	17158	30046	3.14	1.0E-105	AW981688.1	EST_HUMAN	EST9373761 IMAGE resequences, MAGG Homo sapiens cDNA
4773	17793	30684	0.69	1.0E-105	BE868881.1	EST_HUMAN	601445823F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3850156 5'
4773	17793	30685	0.69	1.0E-105	BE868881.1	EST_HUMAN	601445823F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3850156 5'
4793	17810	30702	1.65	1.0E-105	AA699335.1	EST_HUMAN	z144p02.s1 Soares_fetal_liver_spleen_1NFSL_S1 Homo sapiens cDNA clone IMAGE:433682 3'
4976	17991		4.04	1.0E-105	AL163208.2	NT	Homo sapiens chromosome 21 segment HS21C008
5147	18156	31036	1.21	1.0E-105	AB018339.1	NT	Homo sapiens mRNA for KIAA0796 protein, partial cds
5403	18506	31383	0.7	1.0E-105	AF016704.1	NT	Homo sapiens E6-AP ubiquitin-protein ligase (UBE3A) gene, exon 2
5471	18572		1.02	1.0E-105	11420134	NT	Homo sapiens Retina-derived POU-domain factor-1 (RPF-1), mRNA
7089	20023	33324	1.57	1.0E-105	BF314302.1	EST_HUMAN	601901028F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4130334 5'
7089	20023	33325	1.57	1.0E-105	BF314302.1	EST_HUMAN	601901028F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4130334 5'
7174	18405	31203	3.49	1.0E-105	11419198	NT	Homo sapiens GTPase activating protein-like (GAPL), mRNA
7174	18405	31203	3.49	1.0E-105	11419198	NT	Homo sapiens GTPase activating protein-like (GAPL), mRNA
7223	20245	33579	0.56	1.0E-105	AW951634.1	EST_HUMAN	EST363689 IMAGE resequences, MAGB Homo sapiens cDNA
7501	20466	33827	0.69	1.0E-105	BE902616.1	EST_HUMAN	601677279F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3960019 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8192	21162	34572	1.09	1.0E-105	X12556.1	NT	Human mRNA for dbl proto-oncogene
8362	21331	34743	6.09	1.0E-105	T05087.1	EST_HUMAN	EST02975 Fetal brain, Strategene (cat#936206) Homo sapiens cDNA clone IMAGE:2500626 3' similar to
8741	21709	35132	1.52	1.0E-105	AW007194.1	EST_HUMAN	ws50c10.x1 NCI_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2500626 3' similar to
9280	22246	35675	0.75	1.0E-105	AW840817.1	EST_HUMAN	SW-ACSA_PENCH_P36333 ACETYL-COENZYME A SYNTHETASE ;
9405	22370	35805	3.19	1.0E-105	AW016879.1	EST_HUMAN	RC1-CN0008-070100-011-e05 CN0008 Homo sapiens cDNA
9558	22520	35868	0.91	1.0E-105	AW882372.1	EST_HUMAN	U-H-B10p-ab1-b-12-Q-U1.s1 NCI_CGAP_Sub2 Homo sapiens cDNA clone IMAGE:2711782 3'
9558	22520	35969	0.91	1.0E-105	AW882372.1	EST_HUMAN	QV2-OT0062-140300-083-409 OT0062 Homo sapiens cDNA
9928	22810	36262	0.78	1.0E-105	BE867793.1	EST_HUMAN	QV2-OT0062-140300-083-409 OT0062 Homo sapiens cDNA
9928	22810	36263	0.76	1.0E-105	BE867793.1	EST_HUMAN	601443755F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847884 5'
11278	24229	37756	4.59	1.0E-105	AF254822.1	NT	601443755F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847884 5'
11564	24504	38061	1.61	1.0E-105	D63548.1	NT	Homo sapiens SMARCA4 isoform (SMARCA4) gene, complete cds, alternatively spliced
11611	24549	38109	2.93	1.0E-105	7705936	NT	Homo sapiens COL4A6 gene for $\alpha 5$ (IV) collagen, exon 31
11914	24795	38386	2.81	1.0E-105	AW027554.1	EST_HUMAN	Homo sapiens Ran binding protein 11 (LOC51194), mRNA
11984	24861	38457	2.56	1.0E-105	BF430921.1	EST_HUMAN	ww7407.x1 Soares_thymus_NHFTn Homo sapiens cDNA clone IMAGE:2535301 3' similar to TR:Pq7892.
12104	24975	38572	1.5	1.0E-105	AB004924.1	NT	P87892 PROTEASE ;
12104	24975	38573	1.5	1.0E-105	AB004924.1	NT	7018c10.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3574291 3' similar to TR:P97680 P97680
152	13255	26235	1.76	1.0E-106	AW503208.1	EST_HUMAN	RIN1. ;
543	13614	26534	2.23	1.0E-106	AW655556.1	EST_HUMAN	Homo sapiens gene for Smad 3, exon 2 and 3
607	13674	26589	3.07	1.0E-106	J00146.1	NT	Homo sapiens gene for Smad 3, exon 2 and 3
608	13674	26589	1.71	1.0E-106	J00146.1	NT	U1-HF-BN0-akt-g-07-Q-U1.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078348 5'
1712	14742	27726	4.6	1.0E-106	U48724.1	NT	U1-HF-BN0-akt-g-07-Q-U1.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078348 5'
1732	14762	27746	1.01	1.0E-106	U04510.1	NT	U1-HF-BN0-akt-g-07-Q-U1.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078348 5'
1820	14847	27839	4.27	1.0E-106	AA527446.1	EST_HUMAN	EST377629 MAGC resequences, MAGI Homo sapiens cDNA
1820	14847	27840	4.27	1.0E-106	AA527446.1	EST_HUMAN	Human dihydrofolate reductase pseudogene (psi-hd1)
2132	15148	28164	1.52	1.0E-106	BE144286.1	EST_HUMAN	Human dihydrofolate reductase pseudogene (psi-hd1)
2325	15336	28359	3.89	1.0E-106	4504184	NT	Human epidermal growth factor receptor (EGFR) precursor-mRNA, exon 4, partial cds
2512	15515	28539	1.07	1.0E-106	AF003528.1	NT	Homo sapiens type IV collagen alpha 5 chain (COL4A5) gene, exon 41
							Homo sapiens type IV collagen alpha 5 chain (COL4A5) gene, exon 41
							ng41c05.s1 NCI_CGAP_C03 Homo sapiens cDNA clone IMAGE:937352 3' similar to contains element
							LTR3 repetitive element ;
							ng41c05.s1 NCI_CGAP_C03 Homo sapiens cDNA clone IMAGE:937352 3' similar to contains element
							LTR3 repetitive element ;
							ng41c05.s1 NCI_CGAP_C03 Homo sapiens cDNA clone IMAGE:937352 3' similar to contains element
							LTR3 repetitive element ;
							MR0-HT0165-140200-008-d10 HT0165 Homo sapiens cDNA
							Homo sapiens glutathione S-transferase theta 1 (GSTT1), mRNA
							Homo sapiens X-linked anhidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions

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2610	15609	28633	1.79	1.0E-106	BE260201.1	EST_HUMAN	601149783F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3502461 5'
2788	15760	28782	4.05	1.0E-106	A1278528.1	EST_HUMAN	q178h10.x1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:1878307 3'
2838	14461	27437	1.13	1.0E-106	4504184	NT	Homo sapiens glutathione S-transferase theta 1 (GSTT1), mRNA
2838	14461	27438	1.13	1.0E-106	4504184	NT	Homo sapiens glutathione S-transferase theta 1 (GSTT1), mRNA
2886	15945	28860	0.99	1.0E-106	BE384296.1	EST_HUMAN	601272675F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3613818 5'
2852	16009	28934	4.42	1.0E-106	AB037747.1	NT	Homo sapiens mRNA for KIAA1326 protein, partial cds
2852	16009	28935	4.42	1.0E-106	AB037747.1	NT	Homo sapiens mRNA for KIAA1326 protein, partial cds
3195	16250	29168	1.72	1.0E-106	8922965	NT	Homo sapiens hypothetical protein FLJ11273 (FLJ11273), mRNA
3195	16250	29169	1.72	1.0E-106	8922965	NT	Homo sapiens hypothetical protein FLJ11273 (FLJ11273), mRNA
3454	16500	29417	1	1.0E-106	AB033104.1	NT	Homo sapiens mRNA for KIAA1278 protein, partial cds
3454	16500	29418	1	1.0E-106	AB033104.1	NT	Homo sapiens mRNA for KIAA1278 protein, partial cds
4068	17104	29996	7.68	1.0E-106	AW974650.1	EST_HUMAN	EST386875 IMAGE resequences, MAGN Homo sapiens cDNA
4068	17104	29997	7.68	1.0E-106	AW974650.1	EST_HUMAN	EST386875 IMAGE resequences, MAGN Homo sapiens cDNA
4631	17652	30539	0.73	1.0E-106	BE144286.1	EST_HUMAN	MF0-HT0165-140200-008-d10 HT0165 Homo sapiens cDNA
4934	17950	30841	0.92	1.0E-106	U31520.1	NT	Human alpha mannosidase II mRNA, complete cds
5289	18294		0.96	1.0E-106	L41644.1	NT	Homo sapiens dystrophin gene, exon 41
5443	18545	31457	2.52	1.0E-106	AA781155.1	EST_HUMAN	q124509.s1 Soares_testis_NHT Homo sapiens cDNA clone 1391225 3' similar to gb:X12433 PROTEIN PHPS1-2 (HUMAN);
5954	19039	32236	0.82	1.0E-106	AU130113.1	EST_HUMAN	AU130113 NT2RP3 Homo sapiens cDNA clone NT2RP3000274 5'
5954	19039	32237	0.82	1.0E-106	AU130113.1	EST_HUMAN	AU130113 NT2RP3 Homo sapiens cDNA clone NT2RP3000274 5'
6009	19092	32292	0.56	1.0E-106	AA434168.1	EST_HUMAN	zw28d12.s1 Soares ovary tumor NbHOT Homo sapiens cDNA clone IMAGE:770615 3'
6108	19187	32406	0.78	1.0E-106	AU143428.1	EST_HUMAN	AU143428 Y79AA1 Homo sapiens cDNA clone Y79AA1001912 5'
6108	19187	32407	0.78	1.0E-106	AU143428.1	EST_HUMAN	AU143428 Y79AA1 Homo sapiens cDNA clone Y79AA1001912 5'
6221	19285	32529	19	1.0E-106	BF679574.1	EST_HUMAN	602154012F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4295067 5'
6332	19402	32843	0.68	1.0E-106	BE897112.1	EST_HUMAN	601439670F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3924641 5'
6536	19402	32843	0.62	1.0E-106	BE897112.1	EST_HUMAN	601439670F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3924641 5'
6559	19619	32884	17.32	1.0E-106	11545913	NT	Homo sapiens xylotransferase II (XT2), mRNA
6559	19619	32885	17.32	1.0E-106	11545913	NT	Homo sapiens xylotransferase II (XT2), mRNA
7596	20557	33917	5.25	1.0E-106	AA663779.1	EST_HUMAN	ae72e07.s1 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:969732 3' similar to gb:X65873 KINESIN HEAVY CHAIN (HUMAN);
7655	20615	33979	5.04	1.0E-106	11429617	NT	Homo sapiens XPM22 protein (LOC57109), mRNA
7748	20700	34066	1.17	1.0E-106	BE282722.1	EST_HUMAN	601105739F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2888345 5'
7869	20813	34190	8.48	1.0E-106	11425503	NT	Homo sapiens sorting nexin 11 (SNX11), mRNA
7869	20813	34191	8.48	1.0E-106	11425503	NT	Homo sapiens sorting nexin 11 (SNX11), mRNA

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8119	21058	34453	0.63	1.0E-106	AU116850.1	EST_HUMAN	AU116850 HEMBA1 Homo sapiens cDNA clone HEMBA1000129 5'
8317	21286	34698	5.05	1.0E-106	BE741408.1	EST_HUMAN	601594331F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3948463 5'
8317	21288	34700	5.05	1.0E-106	BE741408.1	EST_HUMAN	601594331F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3948463 5'
8515	21483	34897	108.87	1.0E-106	AI523066.1	EST_HUMAN	ar68a07.x1 Barstead aorta HPLRB6 Homo sapiens cDNA clone IMAGE:2127732 3' similar to gb:X06233 CALGRANULIN B (HUMAN);
8976	21942	35366	0.76	1.0E-106	BE387950.1	EST_HUMAN	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604493 5'
8976	21942	35367	0.76	1.0E-106	BE387950.1	EST_HUMAN	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604493 5'
9054	22020	35445	3.3	1.0E-106	AI654123.1	EST_HUMAN	ly92a05.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2283632 3' similar to SW:ICA6_HUMAN Q05084 69 KD ISLET CELL AUTOANTIGEN ;
9060	22028	35449	0.53	1.0E-106	AI991109.1	EST_HUMAN	wu38a03.x1 Soares_Dieckgraefe_colon_NHCD Homo sapiens cDNA clone IMAGE:2522308 3' similar to TAR1 PTRS repetitive element ;
9407	22372	35907	0.87	1.0E-106	AA838831.1	EST_HUMAN	CM4-LT0059-150200-096-e06 LT0059 Homo sapiens cDNA
9502	22466	35906	2.47	1.0E-106	AA825307.1	EST_HUMAN	cc87e08.s1 NCI_CGAP_G0B1 Homo sapiens cDNA clone IMAGE:1354790 3'
9502	22466	35907	2.47	1.0E-106	AA825307.1	EST_HUMAN	cc87e08.s1 NCI_CGAP_G0B1 Homo sapiens cDNA clone IMAGE:1354790 3'
9841	22585	36034	1.55	1.0E-106	AI750447.1	EST_HUMAN	cn03a04.y1 Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NHTBC_cn03a04 random
9784	22725	36181	1.81	1.0E-106	AI479569.1	EST_HUMAN	lm41f02.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2160699 3' similar to contains MSR1.13 TAR1 PTRS repetitive element ;
9784	22725	36182	1.81	1.0E-106	AI479569.1	EST_HUMAN	lm41f02.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2160699 3' similar to contains MSR1.13 TAR1 PTRS repetitive element ;
10361	23284	36761	1.22	1.0E-106	BE389234.1	EST_HUMAN	601282367F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604217 5'
10444	23366	36856	0.92	1.0E-106	BF027310.1	EST_HUMAN	601671674F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3954403 5'
10444	23366	36857	0.92	1.0E-106	BF027310.1	EST_HUMAN	601671674F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3954403 5'
10601	23523	37017	5.46	1.0E-106	AA604417.1	EST_HUMAN	np57b10.s1 NCI_CGAP_B12 Homo sapiens cDNA clone IMAGE:1130395 3'
10601	23523	37018	5.46	1.0E-106	AA604417.1	EST_HUMAN	np57b10.s1 NCI_CGAP_B12 Homo sapiens cDNA clone IMAGE:1130395 3'
10648	23570	37066	1.58	1.0E-106	AW363299.1	EST_HUMAN	RCO-CT0318-201199-031-s11 CT0318 Homo sapiens cDNA
10653	23575	37071	0.5	1.0E-106	11436432	NT	Homo sapiens multimerin (MMRN), mRNA
10653	23575	37072	0.5	1.0E-106	11436432	NT	Homo sapiens multimerin (MMRN), mRNA
10827	23748	37249	0.49	1.0E-106	AL039888.1	EST_HUMAN	DKFZp434F0712_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434F0712 5'
10944	23864	37379	3.52	1.0E-106	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21G002
11242	24195	37713	4.84	1.0E-106	BF032755.1	EST_HUMAN	601453461F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3857366 5'
11242	24195	37714	4.84	1.0E-106	BF032755.1	EST_HUMAN	601453461F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3857366 5'
11402	24346	37879	2.76	1.0E-106	J05200.1	NT	Human tyrosine receptor mRNA, complete cds
11402	24346	37880	2.76	1.0E-106	J05200.1	NT	Human tyrosine receptor mRNA, complete cds

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11736	24622	38200	3.21	1.0E-106	BE257385.1	EST_HUMAN	601108218F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3348997 5'
12250	25763		8.02	1.0E-106	AW410405.1	EST_HUMAN	fh05f11.x1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2861844 5'
12481	25229	31796	3.58	1.0E-106	BE894488.1	EST_HUMAN	601433087F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3818524 5'
12481	25229	31797	3.58	1.0E-106	BE894488.1	EST_HUMAN	601433087F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3818524 5'
12687	25354		4.46	1.0E-106	BE695905.1	EST_HUMAN	RC1-CT0249-090800-024-005 CT0249 Homo sapiens cDNA
237	13337		4.28	1.0E-107	AJ271735.1	NT	Homo sapiens Xq pseudautosomal region; segment 1/2
264	13360		1.85	1.0E-107	X60459.1	NT	Human IFNAR gene for interferon alpha/beta receptor
631	13696	28618	3.38	1.0E-107	AF155103.1	NT	Homo sapiens NY-REN-25 antigen mRNA, partial cds
814	13872	28820	2.77	1.0E-107	X60459.1	NT	Human IFNAR gene for interferon alpha/beta receptor
887	13942	28800	1.31	1.0E-107	X60459.1	NT	Human IFNAR gene for interferon alpha/beta receptor
970	14022	26975	12.86	1.0E-107	AF154121.1	NT	Homo sapiens sodium-dependent high-affinity dicarboxylate transporter (NADC3) mRNA, complete cds
1283	14318	27281	1.8	1.0E-107	AB032283.1	NT	Homo sapiens BAZ1B mRNA for bromodomain adjacent to zinc finger domain 1B, complete cds
1573	14606	27578	3.93	1.0E-107	BF087405.1	EST_HUMAN	QV2-H10540-120900-358-005 H10540 Homo sapiens cDNA
1787	14796	27781	2.54	1.0E-107	AF136275.1	NT	Homo sapiens cathepsin Z precursor (CTSZ) gene, exon 3
1857	14883	27878	0.96	1.0E-107	AB007822.2	NT	Homo sapiens mRNA for KIAA0453 protein, partial cds
1857	14883	27880	0.96	1.0E-107	AB007822.2	NT	Homo sapiens mRNA for KIAA0453 protein, partial cds
2218	15232	28256	1.11	1.0E-107	U13729.1	NT	Human dipeptidyl peptidase IV (CD26) gene, exon 20
2370	15378	28401	1.02	1.0E-107	AW842451.1	EST_HUMAN	PM1-CN0031-190100-001-003 CN0031 Homo sapiens cDNA
2370	15378	28402	1.02	1.0E-107	AW842451.1	EST_HUMAN	PM1-CN0031-190100-001-003 CN0031 Homo sapiens cDNA
2540	15542	28566	1.12	1.0E-107	BE732460.1	EST_HUMAN	601567619F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3842309 5'
2540	15542	28567	1.12	1.0E-107	BE732460.1	EST_HUMAN	601567619F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3842309 5'
3019	16077	28997	3.8	1.0E-107	AW842451.1	EST_HUMAN	PM1-CN0031-190100-001-003 CN0031 Homo sapiens cDNA
3019	16077	28998	3.8	1.0E-107	AW842451.1	EST_HUMAN	PM1-CN0031-190100-001-003 CN0031 Homo sapiens cDNA
3116	16173	29083	3.16	1.0E-107	5902087	NT	Homo sapiens SMT3 (suppressor of mit two 3, yeast) homolog 2 (SMT3H2), mRNA
3839	16879	29782	4.78	1.0E-107	AF020671.1	NT	Homo sapiens myotubularin (MTM1) gene, exon 8
5706	18801	31978	0.56	1.0E-107	AW969038.1	EST_HUMAN	EST381115 MAGC resequences, MAGK Homo sapiens cDNA
5955	19050	32251	3.4	1.0E-107	BE897469.1	EST_HUMAN	601442558F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3848494 5'
6975	20198	33527	0.56	1.0E-107		NT	Homo sapiens A kinase (PRKA) anchor protein 10 (AKAP10), mRNA
7107	20041	33343	0.63	1.0E-107	11431469	NT	Homo sapiens general transcription factor IIIC, polypeptide 1 (alpha subunit, 220kD) (GTF3C1), mRNA
7107	20041	33344	0.63	1.0E-107	11431469	NT	Homo sapiens general transcription factor IIIC, polypeptide 1 (alpha subunit, 220kD) (GTF3C1), mRNA
7588	20549	33909	1.16	1.0E-107	AW503913.1	EST_HUMAN	U1-HF-BN0-alf-0-08-0-U1.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078310 5'

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Table 4
Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7588	20549	33910	1.16	1.0E-107	AW503913.1	EST_HUMAN	U1-HF-BN0-alf-e-08-0-U1.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3079310 5'
7773	20726	34098	1.54	1.0E-107	AI765078.1	EST_HUMAN	wh56h04.x1 NCJ CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2384791 3'
8004	20943	34336	0.81	1.0E-107	AJ404468.1	NT	Homo sapiens mRNA for dynein heavy chain (DNAH9 gene)
8004	20943	34337	0.81	1.0E-107	AJ404468.1	NT	Homo sapiens mRNA for dynein heavy chain (DNAH9 gene)
8078	21015	34415	0.59	1.0E-107	AW410961.1	EST_HUMAN	th09d11.x2 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2964524 5'
9742	22770	36225	1	1.0E-107	AU122469.1	EST_HUMAN	AU122469 MAMMA1 Homo sapiens cDNA clone MAMMA1002433 5'
11061	24024	37548	2.92	1.0E-107	AJ392850.1	EST_HUMAN	tg10d06.x1 NCJ CGAP_CELL 1 Homo sapiens cDNA clone IMAGE:2108363 3' similar to SW:AACT_DICDI
11283	24243	37770	1.52	1.0E-107	L49141.1	NT	P05095 ALPHA-ACTININ 3, NON MUSCULAR ;
11308	24258	37784	2.09	1.0E-107	BF566511.1	EST_HUMAN	Homo sapiens neuroendocrine-specific protein (NSP) gene, exon 4
11651	24588	38158	4.76	1.0E-107	BE540550.1	EST_HUMAN	602123963F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4281039 5'
11721	23918	37435	2.44	1.0E-107	11419701	NT	601066681F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3452829 5'
11721	23918	37436	2.44	1.0E-107	11419701	NT	Homo sapiens HSPC049 protein (HSPC049), mRNA
12321	25902		5.18	1.0E-107	AA001415.1	EST_HUMAN	Homo sapiens HSPC049 protein (HSPC049), mRNA
12345	25759		1.48	1.0E-107	11418318	NT	z645601.s1 Soares retina N2b-4HR Homo sapiens cDNA clone IMAGE:361944 3' similar to contains THR.b1
956	14009	28962	1.66	1.0E-108	BE296042.1	EST_HUMAN	THR repetitive element ;
1270	14305	27285	4.89	1.0E-108	Y18000.1	NT	Homo sapiens G-2 and S-phase expressed 1 (GTSE1), mRNA
2091	15108	28127	1.24	1.0E-108	BF026728.1	EST_HUMAN	601177018F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3532348 5'
2435	15442	28460	9.44	1.0E-108	BE206694.1	EST_HUMAN	Homo sapiens NF2 gene
3360	16410	29332	0.79	1.0E-108	AF032897.1	NT	601671914F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3954939 5'
3360	16410	28333	0.79	1.0E-108	AF032897.1	NT	bb25b10.x1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:2863899 3' similar to gb:X53777 80S
4184	17215	30102	1.13	1.0E-108	AW664438.1	EST_HUMAN	RIBOSOMAL PROTEIN L23 (HUMAN); gb:J06277 Mouse hexokinase mRNA, complete cds (MOUSE);
4555	17578	30468	1.73	1.0E-108	U72961.1	NT	Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds
4555	17578	30469	1.73	1.0E-108	U72961.1	NT	Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds
4842	17859	30754	1.39	1.0E-108	7661979	NT	hi12a11.x1 NCL CGAP_GU1 Homo sapiens cDNA clone IMAGE:2972060 3' similar to SW:3BP1_MOUSE
4956	17871	30862	0.98	1.0E-108	AW504799.1	EST_HUMAN	P55194 SH3-BINDING PROTEIN 3BP-1 ;
4986	18001	30880	2.59	1.0E-108	AJ008005.1	NT	Human hepatocyte nuclear factor 4-alpha gene, exon 2
5184	18193	31068	0.71	1.0E-108	5031624	NT	Human hepatocyte nuclear factor 4-alpha gene, exon 2
5556	18653	31597	1.1	1.0E-108	AW384094.1	EST_HUMAN	Homo sapiens KIAA0187 gene product (KIAA0187), mRNA
5605	18701	31673	2.27	1.0E-108	BE869016.1	EST_HUMAN	U1-HF-BN0-alf-e-04-0-U1.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3080166 5'
							Homo sapiens P5N1 gene, alternative transcript
							Homo sapiens CCAA T-box-binding transcription factor (CBF2) mRNA
							RCO-H70372-241199-031-d03 HT0372 Homo sapiens cDNA
							60144922F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3848980 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5605	18701	31874	2.27	1.0E-108	BE869018.1	EST_HUMAN	601444922F1 NIH_MGC_85 Homo sapiens cDNA clone IMAGE:3848880 5'
6036	19119		0.8	1.0E-108	AF012623.1	NT	Homo sapiens familial mental retardation protein 2 (FMR2) gene, exon 20
6117	19195	32419	0.92	1.0E-108	BF334851.1	EST_HUMAN	PM4-CT0403-240700-001-c10 CT0403 Homo sapiens cDNA
6262	19335	32567	6.27	1.0E-108	AF264717.1	NT	Homo sapiens FIVE domain-containing dual specificity protein phosphatase FIVE-DSP2 mRNA, complete cds
6262	19335	32568	6.27	1.0E-108	AF264717.1	NT	Homo sapiens FIVE domain-containing dual specificity protein phosphatase FIVE-DSP2 mRNA, complete cds
6392	19460	32706	1.22	1.0E-108	AJ133269.1	NT	Homo sapiens caveolin-1/-2 locus, Contig1, D7S522, genes CAV2 (exons 1, 2a, and 2b), CAV1 (exons 1 and 2)
6494	19195	32419	0.99	1.0E-108	BF334851.1	EST_HUMAN	PM4-CT0403-240700-001-c10 CT0403 Homo sapiens cDNA
6773	19828	33110	0.67	1.0E-108	AF016706.1	NT	Homo sapiens E6-AP ubiquitin-protein ligase (UBE3A) gene, exon 4
6773	19828	33111	0.67	1.0E-108	AF016706.1	NT	Homo sapiens E6-AP ubiquitin-protein ligase (UBE3A) gene, exon 4
7365	20335	33885	5.42	1.0E-108	11431857	NT	Homo sapiens G protein-coupled receptor, family C, group 5, member B (GPCR5B), mRNA
7673	20631	33995	1.98	1.0E-108	4758333	NT	Homo sapiens delta-6 fatty acid desaturase (FADS2) mRNA
7718	20675	34041	1.73	1.0E-108	BE252607.1	EST_HUMAN	60113471F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3354084 5'
7749	20702	34069	0.68	1.0E-108	BF528912.1	EST_HUMAN	602043384F1 NCI_CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4181037 5'
7749	20702	34070	0.68	1.0E-108	BF528912.1	EST_HUMAN	602043384F1 NCI_CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4181037 5'
8149	21086	34485	0.57	1.0E-108	11422155	NT	Homo sapiens cyclic fibrosis transmembrane conductance regulator, ATP-binding cassette (sub-family C, member 7) (CFTR), mRNA
8399	21368		1.8	1.0E-108	AF083500.1	NT	Homo sapiens connective tissue growth factor-like protein precursor, mRNA, complete cds
8452	21421	34835	5.44	1.0E-108	AW408694.1	EST_HUMAN	U1-HF-BM0-ads-e-12-Q-UL1 NIH_MGC_38 Homo sapiens cDNA clone IMAGE:3062878 5'
8452	21421	34836	5.44	1.0E-108	AW408694.1	EST_HUMAN	U1-HF-BM0-ads-e-12-Q-UL1 NIH_MGC_38 Homo sapiens cDNA clone IMAGE:3062878 5'
9402	22387	35800	0.93	1.0E-108	AF203977.1	NT	Homo sapiens ETS-family transcription factor EHF (EHF) mRNA, complete cds
9441	22405	35842	0.48	1.0E-108	N44974.1	EST_HUMAN	y35h10.1 Soares melanocyte 2NbrHM Homo sapiens cDNA clone IMAGE:273283 5' similar to PIR:A45773 A45773 kelch protein, long form - fruit fly
10983	23903	37417	2.67	1.0E-108	11428155	NT	Homo sapiens similar to high-mobility group (nonhistone chromosomal) protein 4 (H. sapiens) (LOC63446), mRNA
11027	21040	34439	2.14	1.0E-108	BE535227.1	EST_HUMAN	601087769F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3446361 5'
11177	18353	31288	1.64	1.0E-108	Y12480.1	NT	Homo sapiens mRNA for Golgi-associated microtubule-binding protein (GMAP-210)
11602	24540	38099	3.33	1.0E-108	AW966185.1	EST_HUMAN	EST378258 MAGC resequences, MAG1 Homo sapiens cDNA
11653	24590	38160	1.75	1.0E-108	AV708790.1	EST_HUMAN	AV708790 ADC Homo sapiens cDNA clone ADCAE03 5'
11653	24590	38161	1.75	1.0E-108	AV708790.1	EST_HUMAN	AV708790 ADC Homo sapiens cDNA clone ADCAE03 5'
11698	24663		2.05	1.0E-108	11441485	NT	Homo sapiens G protein-coupled receptor 48 (GPR48), mRNA
11757	24685	38265	1.6	1.0E-108	D63539.1	NT	Homo sapiens COL4A6 gene for $\alpha 1(V)$ collagen, exon 23

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12493	25236	31800	5.14	1.0E-108	AK024447.1	NT	Homo sapiens mRNA for FLJ00037 protein, partial cds
12864	25467		11.97	1.0E-108	BF346356.1	EST_HUMAN	602018571F1 NCJ_CGAP_Bn67 Homo sapiens cDNA clone IMAGE:4154297 5'
44	13164	26097	2.17	1.0E-109	AW803116.1	EST_HUMAN	IL2-UJM077-260400-079-D06 UM0077 Homo sapiens cDNA
67	13185	26104	6.88	1.0E-109	D86974.1	NT	Human mRNA for KIAA0220 gene, partial cds
220	13320	26245	1.51	1.0E-109	11422486	NT	Homo sapiens hypothetical protein FLJ11316 (FLJ11316), mRNA
229	13328	26251	1.97	1.0E-109	11438391	NT	Homo sapiens reticulocalbin 1, EF-hand calcium binding domain (RCN1), mRNA
467	13540	26465	2.2	1.0E-109	4507712	NT	Homo sapiens tetratricopeptide repeat domain 2 (TTC2) mRNA
600	13667	26581	13.45	1.0E-109	AB023216.1	NT	Homo sapiens mRNA for KIAA0999 protein, partial cds
600	13667	26582	13.45	1.0E-109	AB023216.1	NT	Homo sapiens mRNA for KIAA0999 protein, partial cds
1014	14062	27013	0.98	1.0E-109	AL163249.2	NT	Homo sapiens chromosome 21 segment HS21C049
1207	14246	27204	23.68	1.0E-109	M28699.1	NT	Homo sapiens nucleolar phosphoprotein B23 (NPM1) mRNA, complete cds
1208	14246	27204	21.33	1.0E-109	M28699.1	NT	Homo sapiens nucleolar phosphoprotein B23 (NPM1) mRNA, complete cds
1544	14577	27549	1.2	1.0E-109	BE293673.1	EST_HUMAN	601186922F2 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2859636 5'
1544	14577	27550	1.2	1.0E-109	BE293673.1	EST_HUMAN	601186922F2 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2859636 5'
1891	14916	27911	1.63	1.0E-109	D13643.2	NT	Homo sapiens mRNA for KIAA0018 protein, partial cds
2253	15267	28294	2.68	1.0E-109	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
2262	15276	28300	2.59	1.0E-109	Y17123.1	NT	Homo sapiens SNF5/INI1 gene, exon 6
2630	15629	28654	3.42	1.0E-109	AI022328.1	EST_HUMAN	ow95a01.x1 Soares_fetal_liver_spleen_INFLS_S1 Homo sapiens cDNA clone IMAGE:1654536 3' similar to TR:002197 002197 CIRCULATING CATHODIC ANTIGEN. ;
2630	15629	28655	3.42	1.0E-109	AI022328.1	EST_HUMAN	ow95a01.x1 Soares_fetal_liver_spleen_INFLS_S1 Homo sapiens cDNA clone IMAGE:1654536 3' similar to TR:002197 002197 CIRCULATING CATHODIC ANTIGEN. ;
2831	15830	28656	1.84	1.0E-109	4504206	NT	Homo sapiens guanylate cyclase activator 1A (retina) (GUCY1A) mRNA
3071	16128	29040	1.81	1.0E-109	N85190.1	EST_HUMAN	J2816F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA clone J2816 5' similar to ZINC FINGER PROTEIN ZNF43
3399	16448	29374	1.33	1.0E-109	AW893192.1	EST_HUMAN	CM3-NN0009-190400-150-f10 NN0009 Homo sapiens cDNA
3399	16448	29375	1.33	1.0E-109	AW893192.1	EST_HUMAN	CM3-NN0009-190400-150-f10 NN0009 Homo sapiens cDNA
3530	16576	29499	1.86	1.0E-109	AF240698.1	NT	Homo sapiens retinol dehydrogenase homolog isoform-1 (RDH) mRNA, complete cds
3572	16617	29538	0.92	1.0E-109	M37928.1	NT	Homo sapiens adenosine monophosphate deaminase 1 (AMPD1) gene, exons 8-10
3572	16617	29539	0.92	1.0E-109	M37928.1	NT	Homo sapiens adenosine monophosphate deaminase 1 (AMPD1) gene, exons 8-10
3856	16896		2.3	1.0E-109	BE146144.1	EST_HUMAN	MRO-HT0209-110400-108-a04 HT0209 Homo sapiens cDNA
4171	17202	30089	4.97	1.0E-109	AI655417.1	EST_HUMAN	ts98e06.x1 NCJ_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2239330 3' similar to WP:F53A2.8 CE16100 ;
4189	17220	30107	1.33	1.0E-109	AA662274.1	EST_HUMAN	nu93c12.e1 NCJ_CGAP_P122 Homo sapiens cDNA clone IMAGE:1218262 3' similar to SW:GTT2_HUMAN P30712 GLUTATHIONE S-TRANSFERASE THETA 2 ;

Table 4

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4189	17220	30108	1.33	1.0E-109	AA662274.1	EST_HUMAN	nu93c12.s1 NC1 CGAP_P122 Homo sapiens cDNA clone IMAGE:1218282 3' similar to SW:GTT2_HUMAN
4432	17459	30350	2.38	1.0E-109	4504206	NT	P30712 GLUTATHIONE S-TRANSFERASE THETA 2;
4630	17651	30538	1.42	1.0E-109	7662083	NT	Homo sapiens guanylate cyclase activator 1A (relina) (GUCA1A) mRNA
4858	17973	30864	0.94	1.0E-109	R15400.1	EST_HUMAN	Homo sapiens KIAA0377 gene product (KIAA0377), mRNA
5318	18424	31227	0.5	1.0E-109	AU137282.1	EST_HUMAN	yad806.r1 Scores infant brain 1N1B Homo sapiens cDNA clone IMAGE:53057 5'
5332	18438	31190	0.86	1.0E-109	BF873718.1	EST_HUMAN	AU137282 PLACE1 Homo sapiens cDNA clone PLACE1006159 5'
5386	18489	31364	2.28	1.0E-109	5174622	NT	602186446F1 NIH_MGC_88 Homo sapiens cDNA clone IMAGE:4272922 5'
5688	18783		1.49	1.0E-109	BE179356.1	EST_HUMAN	Homo sapiens placental protein 11 (serine proteinase) (P11) mRNA
6037	25651	32323	0.83	1.0E-109	BF379688.1	EST_HUMAN	RC1-HT0615-200400-022-d04 HT0615 Homo sapiens cDNA
6111	18783		1.29	1.0E-109	BE179356.1	EST_HUMAN	CM1-UT0038-060900-389-h07 HT0038 Homo sapiens cDNA
6485	19550	32789	0.57	1.0E-109	M23442.1	NT	RC1-HT0615-200400-022-d04 HT0615 Homo sapiens cDNA
6485	19550	32800	0.57	1.0E-109	M23442.1	NT	Human Interleukin 4 (IL-4) gene, complete cds
6742	19797	33077	8.88	1.0E-109	A1221385.1	EST_HUMAN	Human Interleukin 4 (IL-4) gene, complete cds
6933	20157	33476	0.52	1.0E-109	11024711	NT	qg86h08.x1 Scores_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1842111 3'
6933	20157	33477	0.52	1.0E-109	11024711	NT	Homo sapiens myosin, heavy polypeptide 4, skeletal muscle (MYH4), mRNA
7145	18377	31265	0.49	1.0E-109	BE074888.1	EST_HUMAN	Homo sapiens myosin, heavy polypeptide 4, skeletal muscle (MYH4), mRNA
7451	20417	33772	0.93	1.0E-109	AB046811.1	NT	RC5-BT0580-170300-021-F08 BT0580 Homo sapiens cDNA
7815	20764	34140	3.31	1.0E-109	11432574	NT	Homo sapiens mRNA for KIAA1591 protein, partial cds
7817	20766	34142	5.45	1.0E-109	BF182707.1	EST_HUMAN	Homo sapiens AT-binding transcription factor 1 (ATBF1), mRNA
7817	20766	34143	5.45	1.0E-109	BF182707.1	EST_HUMAN	601809495F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:4040278 5'
8513	21481	34895	1.37	1.0E-109	AL049784.1	NT	601809495F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:4040279 5'
8628	21596	35017	1.08	1.0E-109	AW749130.1	EST_HUMAN	Novel human gene mapping to chromosome 13
9004	21970		3.59	1.0E-109	AA077498.1	EST_HUMAN	PM0-BT0340-091299-002-e05 BT0340 Homo sapiens cDNA
9086	22052	35474	17.25	1.0E-109	BE787540.1	EST_HUMAN	7B18H01 Chromosome 7 Fetal Brain cDNA Library Homo sapiens cDNA clone 7B18H01
9086	22052	35475	17.25	1.0E-109	BE787540.1	EST_HUMAN	601479417F1 NIH_MGC_88 Homo sapiens cDNA clone IMAGE:3882124 5'
9593	22555	36005	1.78	1.0E-109	H84860.1	EST_HUMAN	601479417F1 NIH_MGC_88 Homo sapiens cDNA clone IMAGE:3882124 5'
9705	22658	36113	0.65	1.0E-109	BE397088.1	EST_HUMAN	y80g08.r1 Scores retina N265HR Homo sapiens cDNA clone IMAGE:222110 5' similar to SP:A53491
9705	22658	36114	0.65	1.0E-109	BE397088.1	EST_HUMAN	A53491 BUMETANIDE-SENSITIVE NA-K-C1 CO-TRANSPORTER - SPIN1;
9839	22775	36230	2.5	1.0E-109	F06604.1	EST_HUMAN	601289760F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3620030 5'
11128	24088	37616	2.42	1.0E-109	BE540909.1	EST_HUMAN	HSC1EC121 normalized infant brain cDNA Homo sapiens cDNA clone c-1ec12
11128	24088	37617	2.42	1.0E-109	BE540909.1	EST_HUMAN	601063030F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3449599 5'
11158	24116	37642	31.85	1.0E-109	BF694831.1	EST_HUMAN	601063030F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3449599 5'
							602080724F2 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4245341 5'

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Table 4
Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11459	24402	37950	1.85	1.0E-109	AU121370.1	EST_HUMAN	AU121370 HEMBB1 Homo sapiens cDNA clone HEMBB1002690 5'
11697	24662	38240	2.82	1.0E-109	4502838	NT	Homo sapiens Cheediak-Higashi syndrome 1 (CHS1) mRNA
11735	24621	38199	5.45	1.0E-109	W16510.1	EST_HUMAN	2508b12.1 Soares fetal Jung_NIHIL19W Homo sapiens cDNA clone IMAGE:301439 5' similar to PIR:S43969 S43969 p54-beta stress-activated protein kinases - rat ;
11910	24781	38380	1.59	1.0E-109	BE045560.1	EST_HUMAN	ht23705.x1 NCI CGAP Lu24 Homo sapiens cDNA clone IMAGE:4186753 5'
12125	24994	38597	2.03	1.0E-109	BF339540.1	EST_HUMAN	YGR163W MRNA HOMOLOGUE, COMPLETE CDS. ;
12126	24894	38598	2.03	1.0E-109	BF339540.1	EST_HUMAN	602039003F1 NCI CGAP Bm64 Homo sapiens cDNA clone IMAGE:4186753 5'
12132	25001	38607	1.65	1.0E-109	AA490558.1	EST_HUMAN	602039003F1 NCI CGAP Bm64 Homo sapiens cDNA clone IMAGE:4186753 5'
12395	15276	28300	2.1	1.0E-109	Y17123.1	NT	aa4207.1 Soares NtHMFu_S1 Homo sapiens cDNA clone IMAGE:823621 5'
12613	15276	28300	2.24	1.0E-109	Y17123.1	NT	Homo sapiens SNF5/INI1 gene, exon 6
12720	25374	31774	1.85	1.0E-109	AB011399.1	NT	Homo sapiens SNF5/INI1 gene, exon 6
3	13124	26022	0.99	1.0E-110	7549804	NT	Homo sapiens gene for AF-6, complete cds
39	13159	26061	4.69	1.0E-110	5803073	NT	Homo sapiens deiodinase, batthyronine, type II (DIO2), transcript variant 2, mRNA
39	13159	26062	4.69	1.0E-110	5803073	NT	Homo sapiens leucine-zipper-like transcriptional regulator, 1 (LZTR1), mRNA
109	13124	26022	1.73	1.0E-110	7549804	NT	Homo sapiens leucine-zipper-like transcriptional regulator, 1 (LZTR1), mRNA
294	13388	26316	1.6	1.0E-110	D87291.1	NT	Homo sapiens deiodinase, batthyronine, type II (DIO2), transcript variant 2, mRNA
528	13599	26517	13.41	1.0E-110	U84550.1	NT	Human mRNA for inward rectifier potassium channel, complete cds
1184	14225	27181	1	1.0E-110	5031620	NT	Human dystrobrevin (DTN) gene, exon 20
1284	14319	27282	0.72	1.0E-110	AB032253.1	NT	Homo sapiens calcitonin receptor-like (CALCRL) mRNA
1937	14961	27958	1.35	1.0E-110	BE379477.1	EST_HUMAN	Homo sapiens BAZ1B mRNA for bromodomain adjacent to zinc finger domain 1B, complete cds
2073	15090		1.85	1.0E-110	BF508896.1	EST_HUMAN	601237545F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3609883 5'
2853	15913		1.05	1.0E-110	4503098	NT	U1-H-B14-eps-b-05-0-UJ.s1 NCI CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3085784 3'
3043	14319	27282	0.88	1.0E-110	AB032253.1	NT	Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA
3103	16160		1.01	1.0E-110	U78027.1	NT	Homo sapiens BAZ1B mRNA for bromodomain adjacent to zinc finger domain 1B, complete cds
3209	16264	29185	1.55	1.0E-110	11436041	NT	Homo sapiens Bruton's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein (L44L) and FTP3 (FTP3) genes, complete cds
3209	16264	29186	1.55	1.0E-110	11436041	NT	Homo sapiens pregnancy-zone protein (PZP), mRNA
4231	17260	30145	0.93	1.0E-110	M15918.1	NT	Homo sapiens pregnancy-zone protein (PZP), mRNA
4665	17686	30570	2.11	1.0E-110	A1017213.1	EST_HUMAN	Human autoimmune antigen small nuclear ribonucleoprotein E pseudogene
4684	17705	30597	4.29	1.0E-110	AU117812.1	EST_HUMAN	ou32b10.x1 Soares NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1627963 3' similar to SW:NI21_RAT_P52591 NUCLEAR ENVELOPE PORE MEMBRANE PROTEIN POM 121 ;
5009	18023		1.94	1.0E-110	7662441	NT	AU117812 HEMBA1 Homo sapiens cDNA clone HEMBA1002241 5'
5367	18472	31343	2.23	1.0E-110	BE299406.1	EST_HUMAN	Homo sapiens KIAA1002 protein (KIAA1002), mRNA
							601118710F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3028538 5'

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5814	18904	32087	0.78	1.0E-110	BE621069.1	EST_HUMAN	601493877F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3895795 5'
5834	18924	32106	7.66	1.0E-110	11419323	NT	Homo sapiens hypothetical protein FLJ10300 (FLJ10300), mRNA
5834	18924	32108	7.66	1.0E-110	11419323	NT	Homo sapiens hypothetical protein FLJ10300 (FLJ10300), mRNA
6878	25670	33228	3.64	1.0E-110	M55112.1	NT	Human cystic fibrosis transmembrane conductance regulator (CFTR) gene, exon 7
7235	20256	33590	0.99	1.0E-110	BE251496.1	EST_HUMAN	601108388F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3350277 5'
7308	20280	33619	0.71	1.0E-110	U08888.1	NT	Human GS2 gene, exon 2
7308	20280	33620	0.71	1.0E-110	U08888.1	NT	Human GS2 gene, exon 2
7545	20508	33867	0.69	1.0E-110	A1560289.1	EST_HUMAN	h12408.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2187407 3' similar to SW:ETV1_HUMAN
7656	20816	33980	10.79	1.0E-110	AV714276.1	EST_HUMAN	P50549 ETS TRANSLOCATION VARIANT 1;
7656	20816	33981	10.79	1.0E-110	AV714276.1	EST_HUMAN	AV714276 DCB Homo sapiens cDNA clone DCBCGE01 5'
7656	20816	33981	10.79	1.0E-110	AV714276.1	EST_HUMAN	AV714276 DCB Homo sapiens cDNA clone DCBCGE01 5'
7688	20846	34010	2.64	1.0E-110	AB020875.1	NT	Homo sapiens mRNA for KIAA0868 protein, partial cds
7820	20769	34145	1.01	1.0E-110	AU137923.1	EST_HUMAN	AU137823 PLACE1 Homo sapiens cDNA clone PLACE1007511 5'
9690	22643	36101	0.79	1.0E-110	BE302594.1	EST_HUMAN	ba68f01.y1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2905561 5' similar to TR:O77258 O77258
9690	22643	36101	0.79	1.0E-110	BE302594.1	EST_HUMAN	EG:114D9.2 PROTEIN.1
9836	22863	36324	3.25	1.0E-110	AW838394.1	EST_HUMAN	QV2L.T0053-020400-119-a04.LT0053 Homo sapiens cDNA
10686	23608	37102	3.4	1.0E-110	11432732	NT	Homo sapiens galactokinase 2 (GALK2), mRNA
11089	24059	37593	2.78	1.0E-110	Y12337.1	NT	H. sapiens mRNA for myotonic dystrophy protein kinase like protein
11314	24264	37781	3.18	1.0E-110	BE734357.1	EST_HUMAN	601565604F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3840433 5'
11314	24264	37792	3.18	1.0E-110	BE734357.1	EST_HUMAN	601565604F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3840433 5'
11770	23925	37445	2.49	1.0E-110	AA446528.1	EST_HUMAN	zvf07g02.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:781298 5' similar to TR:G1145816
12210	25051		5.81	1.0E-110	BE897218.1	EST_HUMAN	G1145816 FKBP84
12339	25137		9.66	1.0E-110	AW062258.1	EST_HUMAN	601439784F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3924548 5'
12578	26288		1.72	1.0E-110	AB011399.1	NT	IL0-BT0163-040899-094-g10 BT0163 Homo sapiens cDNA
12706	25913		2.05	1.0E-110	BF364546.1	EST_HUMAN	Homo sapiens gene for AF-6, complete cds
12887	15090		1.34	1.0E-110	BF508896.1	EST_HUMAN	PM3-NN1082-140900-006-f12 NN1082 Homo sapiens cDNA
176	13277		12.39	1.0E-111	U43701.1	NT	UI-H-B14-acs-b-05-q-U1.s1 NCI_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3085784 3'
736	13767		3.39	1.0E-111	BF035327.1	EST_HUMAN	Human ribosomal protein L23a mRNA, complete cds
745	13806	26746	5.88	1.0E-111	8393092	NT	601458531F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3882086 5'
827	13880	26934	3.63	1.0E-111	M25142.1	NT	Homo sapiens cat eye syndrome critical region gene 1 (CECR1), mRNA
2250	15264	28290	1.53	1.0E-111	AF036126.1	NT	Human cardiac alpha-myosin heavy chain (MYH6) gene, exons 32 to 34
4357	17384	30286	4.65	1.0E-111	K02269.1	NT	Homo sapiens collagen type IX chain (COL9A1) gene, exons 29, 30, 31, and 32
5293	18298	31160	0.72	1.0E-111	AB035356.1	NT	Human enkephalin B (enkeB) gene, exon 4 and 3' flank and complete cds
							Homo sapiens mRNA for neuroxin I-alpha protein, complete cds

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5553	18650	31593	0.66	1.0E-111	AA151017.1	EST_HUMAN	z147b07.r1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:505045 5' similar to gb:M23575 PREGNANCY-SPECIFIC BETA-1 GLYCOPROTEIN C PRECURSOR (HUMAN);
5553	18650	31594	0.66	1.0E-111	AA151017.1	EST_HUMAN	z147b07.r1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:505045 5' similar to gb:M23575 PREGNANCY-SPECIFIC BETA-1 GLYCOPROTEIN C PRECURSOR (HUMAN);
5714	18908	31996	0.89	1.0E-111	BE867909.1	EST_HUMAN	601443690F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847655 5'
5837	18927	32111	0.49	1.0E-111	U19669.1	NT	Human two-handed zinc finger protein ZEB mRNA, partial cds
6148	19223	32453	1.5	1.0E-111	A1344679.1	EST_HUMAN	qp09g12.x1 NCL_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1917574 3' similar to gb:M29893 RAS-RELATED PROTEIN RAL-A (HUMAN);
6837	19890	33185	0.95	1.0E-111	AL040762.1	EST_HUMAN	DKFZp434C1815_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434C1815 5'
6978	20201	33531	1.3	1.0E-111	AW294648.1	EST_HUMAN	U1-H-BWO-ail-4-03-Q-U1.s1 NCL_CGAP_Sub6 Homo sapiens cDNA clone IMAGE:2729525 3'
7405	20373	33724	0.52	1.0E-111	AW993166.1	EST_HUMAN	RC2-BN0033-160200-013-505 BN0033 Homo sapiens cDNA
7680	20638	34000	2.57	1.0E-111	BF366228.1	EST_HUMAN	IL2-NT0101-280700-114-E03 NT0101 Homo sapiens cDNA
7772	20725	34097	0.51	1.0E-111	9961253	NT	Homo sapiens ATP-binding cassette, sub-family B (MDR/TAP), member 4 (ABCB4), transcript variant A, mRNA
7779	20732	34104	0.58	1.0E-111	A1761228.1	EST_HUMAN	w68d01.x1 NCL_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2398465 3' similar to gb:J04813 CYTOCHROME P450 IIIA5 (HUMAN);
7873	20817	34195	0.8	1.0E-111	U80017.1	NT	Homo sapiens basic transcription factor 2 p44 (btf2p-44) gene, partial cds, neuronal apoptosis inhibitory protein (nail) and survival motor neuron protein (smn) genes, complete cds
8067	21004	34402	1.52	1.0E-111	AA133914.1	EST_HUMAN	z162c12.r1 Stratagene muscle 937209 Homo sapiens cDNA clone IMAGE:562774 5' similar to gb:X03740 MYOSIN HEAVY CHAIN, SKELETAL MUSCLE (HUMAN);
8431	21400	34812	0.82	1.0E-111	AA278968.1	EST_HUMAN	zs79g03.r1 NCL_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:703732 5' similar to TR:G1256410 G1256410 11-ZINC-FINGER TRANSCRIPTION FACTOR.;
8431	21400	34813	0.82	1.0E-111	AA278968.1	EST_HUMAN	zs79g03.r1 NCL_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:703732 5' similar to TR:G1256410 G1256410 11-ZINC-FINGER TRANSCRIPTION FACTOR.;
8530	21498	34914	0.55	1.0E-111	11431996	NT	Homo sapiens protein x0001 (LOC51185), mRNA
8583	21551	34969	3.24	1.0E-111	U66533.1	NT	Human beta4-integrin (ITGB4) gene, exon 13
9027	21993	35413	0.77	1.0E-111	11420516	NT	Homo sapiens nuclear factor of activated T-cells, cytoplasmic 2 (NFATC2), mRNA
9128	22094	35522	0.83	1.0E-111	AK024453.1	NT	Homo sapiens mRNA for FLJ00045 protein, partial cds
9160	22126	35622	26.95	1.0E-111	BF214502.1	EST_HUMAN	601847132F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:4078303 5'
9236	22202	35632	15.22	1.0E-111	X17033.1	NT	Human mRNA for integrin alpha-2 subunit
9236	22202	35633	15.22	1.0E-111	X17033.1	NT	Human mRNA for integrin alpha-2 subunit
9443	22607	35844	2.88	1.0E-111	AF091395.1	NT	Homo sapiens Trio isoform mRNA, complete cds
9672	22625	36079	0.46	1.0E-111	BF333210.1	EST_HUMAN	QV2-BT0817-270900-398-c06 BT0817 Homo sapiens cDNA

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10512	23434	36932	1.96	1.0E-111	AA504180.1	EST_HUMAN	aa58g02.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:826170 3' similar to gb:L09235
10540	23462		1.89	1.0E-111	D10083.1	NT	VACUOLAR ATP SYNTHASE CATALYTIC SUBUNIT A, UBIQUITOUS (HUMAN);
10635	23557	37057	6.39	1.0E-111	AA131248.1	EST_HUMAN	Homo sapiens RGH1 gene, retrovirus-like element
11110	24070	37592	3.4	1.0E-111	AW298467.1	EST_HUMAN	z31f01.r1 Soares_pregnant_uterus_NHPU Homo sapiens cDNA clone IMAGE:603545 5'
11288	24238		2.64	1.0E-111	AW374340.1	EST_HUMAN	UI-H-BW0-aig-d-07-Q-UI.s1 NCI_CGAP_Sub6 Homo sapiens cDNA clone IMAGE:2730276 3'
11383	24330	37859	2.98	1.0E-111	U68159.1	NT	IL0-CT0031-221099-113-f06 CT0031 Homo sapiens cDNA
12168	25018	38618	4.77	1.0E-111	11417901	NT	Human thrombopoietin receptor (MPL) gene, exons 1,2,3,4,5 and 6
12955	18298	31160	1.75	1.0E-111	AB035356.1	NT	Homo sapiens meningioma (disrupted in balanced translocation) 1 (MN1), mRNA
610	13675	26590	0.9	1.0E-112	4501854	NT	Homo sapiens mRNA for neuraxin -alpha protein, complete cds
612	13677	26592	5.51	1.0E-112	U29103.1	NT	Homo sapiens acetyl-Coenzyme A carboxylase beta (ACACB), mRNA
612	13677	26593	5.51	1.0E-112	U29103.1	NT	Homo sapiens steroloidogenic acute regulatory protein (SIAR) gene, exon 5
633	13698	26618	1.91	1.0E-112	BF508039.1	EST_HUMAN	Human steroidogenic acute regulatory protein (SIAR) gene, exon 5
633	13698	26619	1.91	1.0E-112	BF508039.1	EST_HUMAN	UI-H-B14-aot-g-04-Q-UI.s1 NCI_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3086023 3'
1003	14054	27008	1.21	1.0E-112	AF157623.1	NT	UI-H-B14-aot-g-04-Q-UI.s1 NCI_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3086023 3'
1063	14109	27058	1.85	1.0E-112	P62742	SWISSPROT	Homo sapiens HTRA serine protease (PRSS11) gene, complete cds
1692	14722	27703	3.1	1.0E-112	7682125	NT	ZINC FINGER PROTEIN 135
1692	14722	27704	3.1	1.0E-112	7682125	NT	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
2207	15222	28242	1.08	1.0E-112	AI766825.1	EST_HUMAN	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
2515	15518	28541	1.34	1.0E-112	BE866893.1	EST_HUMAN	w90f06.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2400611 3'
3094	16152		3.53	1.0E-112	4504116	NT	601442674F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3846868 5'
3371	18421	28346	1.07	1.0E-112	AI826511.1	EST_HUMAN	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
3898	18938	28849	0.89	1.0E-112	BE076073.1	EST_HUMAN	wk45b12.x1 NCI_CGAP_Pr22 Homo sapiens cDNA clone IMAGE:2418335 3' similar to gb:M81650_ma1
4634	17655	30542	0.79	1.0E-112	4504116	NT	SEMNOCGELIN 1 PROTEIN PRECURSOR (HUMAN);
4784	17803	30694	5.01	1.0E-112	AB037832.1	NT	MR2-BT0590-090300-113-f09 BT0590 Homo sapiens cDNA
4784	17803	30695	5.01	1.0E-112	AB037832.1	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
5750	18844	32027	38.43	1.0E-112	NA6046.1	EST_HUMAN	Homo sapiens mRNA for KIAA1411 protein, partial cds
6195	19269	32504	1.28	1.0E-112	AF149773.1	NT	Homo sapiens mRNA for KIAA1411 protein, partial cds
6268	19341	32573	0.89	1.0E-112	AW502437.1	EST_HUMAN	yy35407.r1 Soares_melanocyte_2NBHM Homo sapiens cDNA clone IMAGE:273229 5'
6268	19341	32574	0.89	1.0E-112	AW502437.1	EST_HUMAN	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
6378	19446	32687	0.9	1.0E-112	BE741666.1	EST_HUMAN	UI-HF-BR0p-als-g-06-Q-UI.r1 NIH_MGC_52 Homo sapiens cDNA clone IMAGE:3075658 5'
6603	19662	32935	0.83	1.0E-112	BF672815.1	EST_HUMAN	UI-HF-BR0p-als-g-06-Q-UI.r1 NIH_MGC_52 Homo sapiens cDNA clone IMAGE:3075658 5'
6782	19846	33130	0.74	1.0E-112	BE273103.1	EST_HUMAN	601594717F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:3948557 5'
							602152648F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4293420 5'
							601142756F1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:3506508 5'

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6792	19848	33131	0.74	1.0E-112	BE273103.1	EST_HUMAN	601142755F1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:3506608 5'
7018	20144	33461	1.23	1.0E-112	BF574235.1	EST_HUMAN	602131405F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4270921 5'
7362	20332	33682	0.66	1.0E-112	AL043299.1	EST_HUMAN	DKFZp434M0523_1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434M0523 5'
7559	20522	33879	1.62	1.0E-112	11416777	NT	Homo sapiens solute carrier family 6 (neurotransmitter transporter, L-proline), member 7 (SLC6A7), mRNA
7559	20522	33880	1.62	1.0E-112	11416777	NT	Homo sapiens solute carrier family 6 (neurotransmitter transporter, L-proline), member 7 (SLC6A7), mRNA
8535	21503	34921	1.93	1.0E-112	AU118051.1	EST_HUMAN	AU118051 HEMBA1 Homo sapiens cDNA clone HEMBA1002773 5'
9309	22274	35705	2.56	1.0E-112	BE867635.1	EST_HUMAN	601443151F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847285 5'
9309	22274	35706	2.56	1.0E-112	BE867635.1	EST_HUMAN	601443151F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847285 5'
10253	23178	36865	2.18	1.0E-112	BF111413.1	EST_HUMAN	730g07.x1 Scores_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3523020 3' similar to TR:Q9VW35 Q9VW35 CG8743 PROTEIN ;
11132	24092	37621	2.83	1.0E-112	AW863327.1	EST_HUMAN	MR3-SN0009-100400-106-b12 SN0009 Homo sapiens cDNA
11295	24245	37772	2.35	1.0E-112	AJ249900.1	NT	Homo sapiens mRNA for secreted modular calcium-binding protein (smc-1 gene)
11433	24377	37917	1.7	1.0E-112	BE280479.1	EST_HUMAN	601156323F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3138989 5'
11518	24459	38009	3.58	1.0E-112	AW377670.1	EST_HUMAN	PM0-CT0237-141099-001-r02 CT0237 Homo sapiens cDNA
12095	24966	38563	6.59	1.0E-112	M20707.1	NT	Human kappa-immunoglobulin germline pseudogene (Chr22.4) variable region (subgroup V kappa II)
744	13805	28744	5.37	1.0E-113	AI365586.1	EST_HUMAN	ac9501.x1 Schiller meningioma Homo sapiens cDNA clone IMAGE:1953625 3'
744	13805	28745	5.37	1.0E-113	AI365586.1	EST_HUMAN	ac9501.x1 Schiller meningioma Homo sapiens cDNA clone IMAGE:1953625 3'
941	13994	26946	5.76	1.0E-113	M11965.1	NT	Human X-linked phosphoglycerate kinase gene, exon 8
1543	14576	27548	3.01	1.0E-113	AI365586.1	EST_HUMAN	ac9501.x1 Schiller meningioma Homo sapiens cDNA clone IMAGE:1953625 3'
1956	15821	27980	1.29	1.0E-113	AF240775.1	NT	Homo sapiens eIF4E-transporter mRNA, complete cds
2108	15123	28143	0.99	1.0E-113	BF515218.1	EST_HUMAN	UHH-BW1-enl-f-03-0-UI.s1 NCL_OGAP_Sub7 Homo sapiens cDNA clone IMAGE:3082876 3'
3147	16204	29118	1.16	1.0E-113	AJ23948.1	NT	Homo sapiens mRNA for putative RNA helicase, 3' end
5316	25748		1.54	1.0E-113	BE780858.1	EST_HUMAN	601469465F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3872536 5'
5570	18667	31828	6.88	1.0E-113	AU127214.1	EST_HUMAN	AU127214 NT2RP2 Homo sapiens cDNA clone NT2RP2000807 5'
5918	19002	32193	0.54	1.0E-113	BE789172.1	EST_HUMAN	601476236F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3879405 5'
5918	19002	32194	0.54	1.0E-113	BE789172.1	EST_HUMAN	601476236F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3879405 5'
6031	19114	32317	4.18	1.0E-113	AU140291.1	EST_HUMAN	AU140291 PLACE2 Homo sapiens cDNA clone PLACE2000274 5'
6061	19142	32354	0.97	1.0E-113	AF016535.1	NT	Homo sapiens P-glycoprotein (mdr1) mRNA, complete cds
6188	19263	32469	2.42	1.0E-113	11525737	NT	Homo sapiens UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylglucosaminyltransferase 8 (GalNAc-T8) (GALNT8), mRNA

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6280	19352	32587	0.82	1.0E-113	9961249	NT	Homo sapiens ATP-binding cassette, sub-family B (MDR/TAP), member 4 (ABCB4), transcript variant B, mRNA
6280	19352	32588	0.82	1.0E-113	9961249	NT	Homo sapiens ATP-binding cassette, sub-family B (MDR/TAP), member 4 (ABCB4), transcript variant B, mRNA
6449	19514	32764	0.89	1.0E-113	6006002	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA
6449	19514	32765	0.89	1.0E-113	6006002	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA
7543	20506	33865	0.72	1.0E-113	BE262161.1	EST_HUMAN	601162078F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3508362 5'
7543	20506	33866	0.72	1.0E-113	BE262161.1	EST_HUMAN	601162078F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3508362 5'
9450	22414	35850	2.83	1.0E-113	BE382842.1	EST_HUMAN	601297709F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3627554 5'
9450	22414	35851	2.83	1.0E-113	BE382842.1	EST_HUMAN	601297709F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3627554 5'
9756	22697	37548	0.7	1.0E-113	BE772867.1	EST_HUMAN	RC1-FT0134-280600-021-d02 FT0134 Homo sapiens cDNA
10190	23115	36599	1.3	1.0E-113	11429367	NT	Homo sapiens transmembrane protein 2 (TMEM2), mRNA
10290	23216	36599	0.73	1.0E-113	M21535.1	NT	Human erg protein (eto-related gene) mRNA, complete cds
10410	23332	36917	0.77	1.0E-113	5453997	NT	Homo sapiens RAN binding protein 7 (RANBP7), mRNA
10410	23332	36918	0.77	1.0E-113	5453997	NT	Homo sapiens RAN binding protein 7 (RANBP7), mRNA
11457	24400	37948	1.51	1.0E-113	AW500519.1	EST_HUMAN	U1-HF-BNO-ekj-b-12-0-U1.1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3077326 5'
11466	24409	37956	3	1.0E-113	AW630291.1	EST_HUMAN	hh81a09.y1 NCI CGAP_GU1 Homo sapiens cDNA clone IMAGE:2969176 5' similar to TR:O60327 O60327 KIAA0584 PROTEIN ;
11466	24409	37957	3	1.0E-113	AW630291.1	EST_HUMAN	hh81a09.y1 NCI CGAP_GU1 Homo sapiens cDNA clone IMAGE:2969176 5' similar to TR:O60327 O60327 KIAA0584 PROTEIN ;
11592	24530	38087	2.84	1.0E-113	BE292868.1	EST_HUMAN	601105529F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2988366 5'
11826	24709	38292	3.1	1.0E-113	AA580720.1	EST_HUMAN	nc80b03.r1 NCI CGAP_GC1 Homo sapiens cDNA clone IMAGE:787069 5' similar to SW:FEN1_HUMAN P39748 FLAP ENDONUCLEASE-1 ;
11826	24709	38293	3.1	1.0E-113	AA580720.1	EST_HUMAN	nc80b03.r1 NCI CGAP_GC1 Homo sapiens cDNA clone IMAGE:787069 5' similar to SW:FEN1_HUMAN P39748 FLAP ENDONUCLEASE-1 ;
60	13179	26092	0.65	1.0E-114	Y17151.2	NT	Homo sapiens mRNA for multidrug resistance protein 3 (ABCC3)
60	13179	26093	0.65	1.0E-114	Y17151.2	NT	Homo sapiens mRNA for multidrug resistance protein 3 (ABCC3)
60	13179	26094	0.65	1.0E-114	Y17151.2	NT	Homo sapiens mRNA for multidrug resistance protein 3 (ABCC3)
646	13712	26634	5.97	1.0E-114	T70651.1	EST_HUMAN	yf15c01.s1 Scores fetal liver cpihen 1NFLS Homo sapiens cDNA clone IMAGE:108288 3' similar to gb:A21187 ALPHA-2-MACROGLOBULIN PRECURSOR (HUMAN); contains Alu repetitive element;
1072	14117	27068	1.78	1.0E-114	8923087	NT	Homo sapiens hypothetical protein FLJ20080 (FLJ20080), mRNA
1316	14351	27319	6	1.0E-114	7657529	NT	Homo sapiens rhadoid tumor deletion region protein 1 (RTDR1), mRNA
1648	14680	27653	1.79	1.0E-114	6631094	NT	Homo sapiens minichromosome maintenance deficient (S. cerevisiae) 3 (MCM3), mRNA

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Table 4
Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1681	14713	27691	5.92	1.0E-114	6679073	NT	Homo sapiens nucleoporin-like protein, 1 (NLP_1), mRNA
3148	16205	29119	2.91	1.0E-114	X04086.1	NT	Human gene for catalase (EC 1.11.1.6) exon 2 mapping to chromosome 11, band p13
3187	16242	29160	1.26	1.0E-114	BF206374.1	EST_HUMAN	601869932F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4100214 5'
4044	17082	29880	1.25	1.0E-114	AF149773.1	NT	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
4417	17444	30335	0.78	1.0E-114	J03171.1	NT	Human interferon-alpha receptor (HuIFN-alpha-Rec) mRNA, complete cds
5228	18236	31110	0.99	1.0E-114	AA194468.1	EST_HUMAN	zfp05e05.1 Strategene muscle 937209 Homo sapiens cDNA clone IMAGE:628832 5' similar to contains MER22 k3 MER22 repetitive element ;
5474	18575	31483	1.47	1.0E-114	4506880	NT	Homo sapiens sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A (SEMA5A) mRNA
5474	18575	31484	1.47	1.0E-114	4506880	NT	Homo sapiens sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A (SEMA5A) mRNA
5676	18771	31943	1	1.0E-114	9257207	NT	Homo sapiens clathrin, heavy polypeptide-like 1 (CLTCL1), transcript variant 2, mRNA
6354	19423	32665	0.51	1.0E-114	Z26298.1	NT	H.sapiens isoform 1 gene for L-type calcium channel, exon 20
7191	18422	31224	0.54	1.0E-114	4759163	NT	Homo sapiens sparc/osteonectin, cwc/ and kazal-like domains proteoglycan (testican) (SP-OCK) mRNA
7280	20014	31224	1.01	1.0E-114	AB041533.1	NT	Homo sapiens HOMOGT-1 mRNA for sperm antigen, complete cds
7460	20416	33770	1.08	1.0E-114	AU134187.1	EST_HUMAN	AU134187 OVARC1 Homo sapiens cDNA clone OVARC1001444 5'
7450	20416	33771	1.08	1.0E-114	AU134187.1	EST_HUMAN	AU134187 OVARC1 Homo sapiens cDNA clone OVARC1001444 5'
7489	20464	33824	5.65	1.0E-114	Y18000.1	NT	Homo sapiens NF2 gene
7499	20464	33825	5.65	1.0E-114	Y18000.1	NT	Homo sapiens NF2 gene
8223	21192	34800	1.87	1.0E-114	4557600	NT	Homo sapiens gamma-aminobutyric acid (GABA) A receptor, alpha 2 (GABRA2) mRNA
8507	21475	34888	1.65	1.0E-114	A1363139.1	EST_HUMAN	qy88d06.x1 NCI_CGAP_Brm25 Homo sapiens cDNA clone IMAGE:2017163 3'
8607	21475	34889	1.65	1.0E-114	A1363139.1	EST_HUMAN	qy88d06.x1 NCI_CGAP_Brm25 Homo sapiens cDNA clone IMAGE:2017163 3'
9049	22015	35439	3.38	1.0E-114	U63041.1	NT	Human neural cell adhesion molecule CD56 mRNA, complete cds
9119	22085	35514	5.81	1.0E-114	AB011133.1	NT	Homo sapiens mRNA for KIAA0561 protein, partial cds
9119	22085	35515	5.81	1.0E-114	AB011133.1	NT	Homo sapiens mRNA for KIAA0561 protein, partial cds
9353	22318	35744	0.42	1.0E-114	AB046784.1	NT	Homo sapiens mRNA for KIAA1564 protein, partial cds
9537	22500	35948	0.61	1.0E-114	BF109832.1	EST_HUMAN	7f69g12.x1 Soares NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3528847 3' similar to TR:091JHNG 091JHNG TRANSMEMBRANE PROTEIN 2 ;
9769	22710		14.09	1.0E-114	AW327455.1	EST_HUMAN	dq03f06.x1 NIH_MGC_2 Homo sapiens cDNA clone IMAGE:2846744 5'
9818	21140	34546	3.34	1.0E-114	AF077754.1	NT	Homo sapiens tyrosine kinase pp60-c-src (SRC) gene, exon 12 and partial cds
9906	22658		1.15	1.0E-114	M13536.1	NT	Human ceruloplasmin mRNA
10498	23420	36919	0.95	1.0E-114	BE870004.1	EST_HUMAN	601449752F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3853500 5'
10522	23444	36942	1.42	1.0E-114	AL163227.2	NT	Homo sapiens chromosome 21 segment HS21C027

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Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10907	23827	37340	0.87	1.0E-114	BE171984.1	EST_HUMAN	MR0-HT0559-250200-002-d07 HT0559 Homo sapiens cDNA
11140	24100						ba73g12.y1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2908086 5' similar to gb:X17206 40S RIBOSOMAL PROTEIN S4 (HUMAN); gb:M20632 Mouse LLRep3 protein mRNA from a repetitive element, complete (MOUSE);
11524	24465	38018	15.04	1.0E-114	BE302886.1	EST_HUMAN	AV733454 cda Homo sapiens cDNA clone cdABA08 5'
11524	24465	38019	3.01	1.0E-114	AV733454.1	EST_HUMAN	AV733454 cda Homo sapiens cDNA clone cdABA08 5'
12819	25974		2.9	1.0E-114	11418041	NT	Homo sapiens TNF-inducible protein CG12-1 (CG12-1), mRNA
12859	25464	31725	3.55	1.0E-114	11034850	NT	Homo sapiens hypothetical protein (DJ1042K10.2), mRNA
12859	25464	31726	3.55	1.0E-114	11034850	NT	Homo sapiens hypothetical protein (DJ1042K10.2), mRNA
24	13144	26044	2.83	1.0E-115	4758111	NT	Homo sapiens HLA-B associated transcript-1 (D0S81E) mRNA
130	13235	26165	2.37	1.0E-115	4505938	NT	Homo sapiens polymerase (RNA) II (DNA directed) polypeptide A (220kD) (POLR2A) mRNA
134	13239		3.38	1.0E-115	4557887	NT	Homo sapiens keratin 18 (KRT18) mRNA
292	13366	26313	5.22	1.0E-115	AW804759.1	EST_HUMAN	QV4-UM0094-300300-158-b08 UM0094 Homo sapiens cDNA
537	13608	26526	1.12	1.0E-115	AI339206.1	EST_HUMAN	q106f01.x1 NCI_CGAP_G04 Homo sapiens cDNA clone IMAGE:1946809 3' similar to TR:O00538 O00538 TTF-1 INTERACTING PEPTIDE 5;
537	13608	26527	1.12	1.0E-115	AI339206.1	EST_HUMAN	q106f01.x1 NCI_CGAP_G04 Homo sapiens cDNA clone IMAGE:1946809 3' similar to TR:O00538 O00538 TTF-1 INTERACTING PEPTIDE 5;
787	13846	26782	0.78	1.0E-115	5174702	NT	Homo sapiens transforming growth factor beta-activated kinase-binding protein 1 (TAB1), mRNA
787	13846	26793	0.78	1.0E-115	5174702	NT	Homo sapiens transforming growth factor beta-activated kinase-binding protein 1 (TAB1), mRNA
789	13848	26795	66.69	1.0E-115	4503794	NT	Homo sapiens ferritin, heavy polypeptide 1 (FTH1) mRNA
1561	14593	27596	1.46	1.0E-115	AF229180.1	NT	Homo sapiens alpha-aminoadipate semialdehyde synthase mRNA, complete cds
1561	14593	27597	1.46	1.0E-115	AF229180.1	NT	Homo sapiens alpha-aminoadipate semialdehyde synthase mRNA, complete cds
1858	14884	27881	1.24	1.0E-115	U78027.1	NT	Homo sapiens Bruton's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein (L44L) and FTP3 (FTP3) genes, complete cds
2863	15923		1.7	1.0E-115	AW804759.1	EST_HUMAN	QV4-UM0094-300300-158-b08 UM0094 Homo sapiens cDNA
3132	16189	29099	2.74	1.0E-115	AJ245922.1	NT	Homo sapiens mRNA for alpha-tubulin 8 (TUBA8 gene)
3132	16189	29100	2.74	1.0E-115	AJ245922.1	NT	Homo sapiens mRNA for alpha-tubulin 8 (TUBA8 gene)
3488	16532	29457	2.07	1.0E-115	AJ277892.1	NT	Homo sapiens partial TTN gene for titin
4072	17108	30002	4.75	1.0E-115	AB002348.2	NT	Homo sapiens mRNA for KIAA0350 protein, partial cds
4295	17324	30204	0.86	1.0E-115	AL137163.1	NT	Novel human gene mapping to chromosome X
4429	17456	30347	3.89	1.0E-115	6912659	NT	Homo sapiens sir2-like 3 (SIRT3), mRNA
4465	17491	30378	3.73	1.0E-115	4758279	NT	Homo sapiens EphA4 (EPHA4) mRNA
4702	17723	30816	2.53	1.0E-115	AL096857.1	NT	Novel human mRNA from chromosome 1, which has similarities to BAT2 genes
4702	17723	30817	2.53	1.0E-115	AL096857.1	NT	Novel human mRNA from chromosome 1, which has similarities to BAT2 genes

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Table 4
Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4943	17959	30849	2.57	1.0E-115	AL163268.2	NT	Homo sapiens chromosome 21 segment HS21C068
4943	17959	30850	2.57	1.0E-115	AL163268.2	NT	Homo sapiens chromosome 21 segment HS21C068
5420	18523	31401	9.81	1.0E-115	AW970335.1	EST_HUMAN	EST382416 IMAGE resequences, MAGK Homo sapiens cDNA
5498	18598	31510	1.06	1.0E-115	BF665387.1	EST_HUMAN	602118348F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4276738 5'
5620	18716	31875	1.68	1.0E-115	11425128	NT	Homo sapiens similar to ER to nucleus signalling 1 (H. sapiens) (LOC83433), mRNA
5620	18716	31876	1.68	1.0E-115	11425128	NT	Homo sapiens similar to ER to nucleus signalling 1 (H. sapiens) (LOC83433), mRNA
5775	18867	32049	1.1	1.0E-115	AI928799.1	EST_HUMAN	au64g01.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2519568 3' similar to gb.L07807
5775	18867	32050	1.1	1.0E-115	AI928799.1	EST_HUMAN	au64g01.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2519568 3' similar to gb.L07807
6391	19459	32704	0.68	1.0E-115	11426786	NT	DYNAMIN-1 (HUMAN);
6391	19459	32705	0.68	1.0E-115	11426786	NT	Homo sapiens sperm surface protein (HSS), mRNA
6391	19459	32705	0.68	1.0E-115	11426786	NT	Homo sapiens sperm surface protein (HSS), mRNA
6535	19598	32861	19.47	1.0E-115	11426038	NT	Homo sapiens similar to ribosomal protein S28 (H. sapiens) (LOC83436), mRNA
6678	19735	33010	1.82	1.0E-115	7661833	NT	Homo sapiens KIAA0054 gene product; Helicase (KIAA0054), mRNA
6678	19735	33011	1.82	1.0E-115	7661833	NT	Homo sapiens KIAA0054 gene product; Helicase (KIAA0054), mRNA
7120	20054	33358	0.57	1.0E-115	T86774.1	EST_HUMAN	y486b08.r1 Soares fetal liver spleen 1NLS Homo sapiens cDNA clone IMAGE:115095 5' similar to SP-DPOG_YEAST P18801 DNA POLYMERASE GAMMA;
7493	20458	33816	1.22	1.0E-115	AI076598.1	EST_HUMAN	oz31a06.x1 Soares total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:1676914 3'
7493	20458	33817	1.22	1.0E-115	AI076598.1	EST_HUMAN	oz31a06.x1 Soares total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:1676914 3'
7638	20598	33962	7.12	1.0E-115	AB023212.1	NT	Homo sapiens mRNA for KIAA0995 protein, partial cds
8500	21468	34984	11.55	1.0E-115	BE830187.1	EST_HUMAN	RC8-ET0081-130700-011-G01 ET0081 Homo sapiens cDNA
8500	21468	34985	11.55	1.0E-115	BE830187.1	EST_HUMAN	RC8-ET0081-130700-011-G01 ET0081 Homo sapiens cDNA
9164	22130	35557	4.68	1.0E-115	11434772	NT	Homo sapiens eukaryotic translation initiation factor 4B (EIF4B), mRNA
10133	23059	36536	0.84	1.0E-115	BF382028.1	EST_HUMAN	601816352F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4050108 5'
10358	23282	36758	1.74	1.0E-115	AB002336.1	NT	Human mRNA for KIAA0338 gene, partial cds
10358	23282	36759	1.74	1.0E-115	AB002336.1	NT	Human mRNA for KIAA0338 gene, partial cds
10887	23807	37312	1.02	1.0E-115	AI221878.1	EST_HUMAN	qg99a09.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1843336 3'
10887	23807	37313	1.02	1.0E-115	AI221878.1	EST_HUMAN	qg99a09.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1843336 3'
10894	23814	37321	0.7	1.0E-115	AI524687.1	EST_HUMAN	tt12a07.x1 NCI CGAP_CLL1 Homo sapiens cDNA clone IMAGE:2118036 3' similar to TR:O16129 O16129
10920	23840	37356	0.73	1.0E-115	BE886295.1	EST_HUMAN	PHENYLALANYL TRNA SYNTHETASE;
11072	24034	37558	3.4	1.0E-115	AW571544.1	EST_HUMAN	601509878F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3911610 5'
							xx3208.x1 NCI CGAP_U11 Homo sapiens cDNA clone IMAGE:2839239 3' similar to SW:CAYP_CANFA
							P10463 CALCYPHOSINE;

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11599	24527	38083	2.1	1.0E-115	BE045890.1	EST_HUMAN	h454c10.x1 NCL_CGAP_Pan3 Homo sapiens cDNA clone IMAGE:3123186 3' similar to TR:O88378 O88378 PRP4 PROTEIN KINASE HOMOLOG ;
11599	24527	38084	2.1	1.0E-115	BE045890.1	EST_HUMAN	h454c10.x1 NCL_CGAP_Pan3 Homo sapiens cDNA clone IMAGE:3123186 3' similar to TR:O88378 O88378 PRP4 PROTEIN KINASE HOMOLOG ;
11726	24612	38189	2.06	1.0E-115	4502528	NT	Homo sapiens calcium channel, voltage-dependent, alpha 1E subunit (CACNA1E) mRNA
12191	25036		1.52	1.0E-115	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
574	13843	28557	1.02	1.0E-116	BE275502.1	EST_HUMAN	601121347F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2988875 5'
801	13880	28807	2.44	1.0E-116	4507334	NT	Homo sapiens synaptobrevin 1 (SYNJ1), mRNA
860	13916		0.66	1.0E-116	4507334	NT	Homo sapiens synaptobrevin 1 (SYNJ1), mRNA
2013	15034	28044	2.89	1.0E-116	5174478	NT	Homo sapiens pericentrin (PCNT) mRNA
2013	15034	28045	2.89	1.0E-116	5174478	NT	Homo sapiens pericentrin (PCNT) mRNA
2316	15327	28350	1.86	1.0E-116	5453941	NT	Homo sapiens protein phosphatase, EF hand calcium-binding domain 1 (PPEF1) mRNA
2348	15357		1.68	1.0E-116	U78308.1	NT	Human olfactory receptor olfr17-201-1 (OR17-201-1) gene, olfactory receptor olfr17-32 (OR17-32) gene and olfactory receptor pseudo_olfr17-01 (OR17-01) pseudogene, complete cds
2462	15466	28489	2.99	1.0E-116	AB018333.1	NT	Homo sapiens mRNA for KIAA0790 protein, partial cds
2744	15829	28754	3.32	1.0E-116	BE889256.1	EST_HUMAN	601513337F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3914600 5'
3180	16235		0.95	1.0E-116	T07515.1	EST_HUMAN	EST08405 Feld brain, Stratagene (cat#836206) Homo sapiens cDNA clone HFBK28 similar to EST containing L1 repeat
3189	16244	29161	5.44	1.0E-116	L77570.1	NT	Homo sapiens DiGeorge syndrome critical region, centromeric end
3189	16244	29162	5.44	1.0E-116	L77570.1	NT	Homo sapiens DiGeorge syndrome critical region, centromeric end
4405	17433	30318	2.36	1.0E-116	5031954	NT	Homo sapiens sodium phosphate transporter 3 (NPT3) mRNA
4892	17809	30798	2.03	1.0E-116	AI907096.1	EST_HUMAN	PM-BT135-070499-016 BT135 Homo sapiens cDNA
5230	18238	31111	0.92	1.0E-116	AJ243213.1	NT	Homo sapiens partial 5-HT4 receptor gene, exons 2 to 5
5351	18456	31326	0.92	1.0E-116	AI302062.1	EST_HUMAN	qh19d04.x1 NCL_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1898885 3' similar to contains element MER25 repetitive element ;
6090	19169	32384	2.18	1.0E-116	W42822.1	EST_HUMAN	zc24d07.r1 Soares_senescent_fibroblasts, NBHSF Homo sapiens cDNA clone IMAGE:323245 5' similar to SW:MDHM_MOUSE P08249 MALATE DEHYDROGENASE, MITOCHONDRIAL PRECURSOR ;
6336	19405	32845	1.8	1.0E-116	AB046856.1	NT	Homo sapiens mRNA for KIAA1636 protein, partial cds
6336	19405	32846	1.8	1.0E-116	AB046856.1	NT	Homo sapiens mRNA for KIAA1636 protein, partial cds
6408	19476	32723	0.95	1.0E-116	BE408097.1	EST_HUMAN	601302281F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3636764 5'
6649	19707	32982	0.73	1.0E-116	5729867	NT	Homo sapiens hct domain and RLD 2 (HERC2), mRNA
6649	19707	32983	0.73	1.0E-116	5729867	NT	Homo sapiens hct domain and RLD 2 (HERC2), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6663	19720		2.06	1.0E-116	BE158133.1	EST_HUMAN	MR2-H70379-210200-102-604 HT0379 Homo sapiens cDNA
7130	20106	33417	1.59	1.0E-116	C02944.1	EST_HUMAN	C02944 Human heart cDNA (YNakamura) Homo sapiens cDNA clone 3NHCO567
7410	20377	33728	7.19	1.0E-116	AV716314	EST_HUMAN	AV716314 DCB Homo sapiens cDNA clone DCB8CG06 5'
8712	21680	35106	1.32	1.0E-116	AA354256.1	EST_HUMAN	EST162685 Jurkat T-cells V Homo sapiens cDNA 5' end similar to keratin 2
8712	21680	35107	1.32	1.0E-116	AA354256.1	EST_HUMAN	EST162685 Jurkat T-cells V Homo sapiens cDNA 5' end similar to keratin 2
8824	21791	35213	1.04	1.0E-116	A1904151.1	EST_HUMAN	CM-BT043-090289-075 BT043 Homo sapiens cDNA
8280	22256	35686	1.39	1.0E-116	BE565507.1	EST_HUMAN	601338268F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3680680 5'
9455	22419	35857	2.9	1.0E-116	A1216352.1	EST_HUMAN	q109c05.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1844168 3' similar to gb-X53741_mai1 FIBULIN-1, ISOFORM A PRECURSOR (HUMAN).
10033	22960	36428	1.49	1.0E-116	11418648	NT	Homo sapiens laminin, alpha 2 (merosin, congenital muscular dystrophy) (LAMA2), mRNA
10633	23555	37055	0.71	1.0E-116	AJ277441.1	NT	Homo sapiens partial mRNA for xylosyltransferase I (XT-I) gene
10633	23555	37056	0.71	1.0E-116	AJ277441.1	NT	Homo sapiens partial mRNA for xylosyltransferase I (XT-I) gene
10713	23635	37128	0.81	1.0E-116	BE158913.1	EST_HUMAN	QV4-HT0401-281299-063-c09 HT0401 Homo sapiens cDNA
11046	24010	37536	2.44	1.0E-116	BF335949.1	EST_HUMAN	CM2-CT0482-300800-349-c06 CT0482 Homo sapiens cDNA
11470	24413	37992	2.63	1.0E-116	A1367140.1	EST_HUMAN	q41e04.x1 Soares_NhlhMPu_S1 Homo sapiens cDNA clone IMAGE:1935102 3' similar to WP:B0495.7 CE01765
12904	25840		1.66	1.0E-116	AL134889.1	EST_HUMAN	DKFZp762L1110_r1 762 (synonym: hmel2) Homo sapiens cDNA clone DKFZp762L1110 5'
560	13630	26547	1.04	1.0E-117	4826636	NT	Homo sapiens acetyl-Coenzyme A carboxylase alpha (ACACA), mRNA
1079	15858	27076	0.86	1.0E-117	AF124393.1	NT	Mus musculus fragile-X-related protein 1 (Fxr1h) gene, exons 13a through 15
1229	14267	27224	2.2	1.0E-117	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
1848	14974	27870	2.04	1.0E-117	M19816.1	NT	Homo sapiens apolipoprotein B-100 (apoB) gene, exon 10
2221	15235	28259	1.26	1.0E-117	AW957699.1	EST_HUMAN	EST1389768 IMAGE resequencing, IMAGE Homo sapiens cDNA
3281	16335	29255	1.51	1.0E-117	AA978114.1	EST_HUMAN	q132c11.s1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1578548 3'
4016	17055	29958	5.89	1.0E-117	AA316723.1	EST_HUMAN	EST188414 HCC cell line (metastasis to liver in mouse) II Homo sapiens cDNA 5' end similar to ribosomal protein L29
4371	17398	30278	2.1	1.0E-117	8859564	NT	Homo sapiens collagen, type IV, alpha 5 (Alport syndrome) (COL4A5), mRNA
4608	17629	30521	1.95	1.0E-117	AL042120.1	EST_HUMAN	DKFZp343C1120_r1 434 (synonym: htss3) Homo sapiens cDNA clone DKFZp343C1120 5'
4755	17775	30670	1.19	1.0E-117	X89670.1	NT	H. sapiens mRNA for TPCR16 protein
4755	17775	30671	1.19	1.0E-117	X89670.1	NT	H. sapiens mRNA for TPCR16 protein
4847	17864	30757	10.31	1.0E-117	AF134304.2	NT	Homo sapiens Scar2 (SCAR2) gene, partial cds
4847	17864	30758	10.31	1.0E-117	AF134304.2	NT	Homo sapiens Scar2 (SCAR2) gene, partial cds
4977	17992	30881	4.01	1.0E-117	AB020873.1	NT	Homo sapiens mRNA for KIAA0866 protein, complete cds
5421	18524	31402	3.29	1.0E-117	BE730508.1	EST_HUMAN	601562657F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3632214 5'
7148	18380	31269	0.53	1.0E-117	AA323348.1	EST_HUMAN	EST28111 Cerebellum II Homo sapiens cDNA 5' end similar to similar to zinc finger domain

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7683	20641	34004	4.55	1.0E-117	L76571.1	NT	Homo sapiens nuclear hormone receptor (shp) gene, 3' end of cds
7683	20641	34005	4.55	1.0E-117	L76571.1	NT	Homo sapiens nuclear hormone receptor (shp) gene, 3' end of cds
7795	20747	34121	3.71	1.0E-117	AV717788.1	EST_HUMAN	AV717788 DCB Homo sapiens cDNA clone DCBBAE01 5'
7795	20747	34122	3.71	1.0E-117	AV717788.1	EST_HUMAN	AV717788 DCB Homo sapiens cDNA clone DCBBAE01 5'
8311	21280	34691	3.79	1.0E-117	AI950145.1	EST_HUMAN	wp86b07.x1 NCI CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2468629 3' similar to TR:O75065
8654	21622	35042	1.01	1.0E-117	10834989	NT	O75065 KIAA0477 PROTEIN ;
8654	21622	35043	1.01	1.0E-117	10834989	NT	Homo sapiens neural cell adhesion molecule 1 (NCAM1), mRNA
8654	21622	35043	1.01	1.0E-117	10834989	NT	Homo sapiens neural cell adhesion molecule 1 (NCAM1), mRNA
8754	21722	35144	0.83	1.0E-117	AI804151.1	EST_HUMAN	CM-BT043-090298-075 BT043 Homo sapiens cDNA
8754	21722	35145	0.83	1.0E-117	AI804151.1	EST_HUMAN	CM-BT043-090298-075 BT043 Homo sapiens cDNA
9654	22597	38048	1.81	1.0E-117	D16524.1	NT	Human gene for very low density lipoprotein receptor, exon 11
10145	23071	38548	1.71	1.0E-117	BE733922.1	EST_HUMAN	601593317F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3843748 5'
10308	25701	38713	0.84	1.0E-117	AF090333.1	NT	Homo sapiens gamma-aminobutyric acid type B receptor 2 (GABABR2) mRNA, complete cds
10934	23854	37370	1.96	1.0E-117	11420222	NT	Homo sapiens Drosophila Keld like protein (DKELHL), mRNA
11207	24181	37691	2.17	1.0E-117	D83778.1	NT	Human mRNA for KIAA0191 gene, partial cds
11375	24322	37850	1.96	1.0E-117	11424835	NT	Homo sapiens protein (peptidyl-prolyl cis/trans isomerase) NIMA-interacting 1 (PIN1), mRNA
11375	24322	37851	1.96	1.0E-117	11424835	NT	Homo sapiens protein (peptidyl-prolyl cis/trans isomerase) NIMA-interacting 1 (PIN1), mRNA
11604	24542	38101	2.72	1.0E-117	AB011541.1	NT	Homo sapiens mRNA for MEGF8, partial cds
11604	24542	38102	2.72	1.0E-117	AB011541.1	NT	Homo sapiens mRNA for MEGF8, partial cds
11722	24608		34.45	1.0E-117	BE268856.1	EST_HUMAN	601186203F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3544286 5'
11921	24802	38393	1.76	1.0E-117	4501848	NT	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA
11921	24802	38394	1.76	1.0E-117	4501848	NT	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA
12429	25911		1.39	1.0E-117	AF224689.1	NT	Homo sapiens mannosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3 (UBE2D3) genes, complete cds
71	13189	28109	2.9	1.0E-118	AF161500.1	NT	Homo sapiens HSPC151 mRNA, complete cds
95	13211	28135	1.27	1.0E-118	AL045854.1	EST_HUMAN	DKFZp434i056_1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434i056 5'
518	13589	28509	4.46	1.0E-118	7657016	NT	Homo sapiens hypothetical protein (DJ328E19.C1.1), mRNA
915	15854	28923	1.86	1.0E-118	5174680	NT	Homo sapiens sine oculis homeobox (Drosophila) homolog 1 (SIX1) mRNA
2242	15256	28280	1.93	1.0E-118	BE389705.1	EST_HUMAN	601281947F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604019 5'
2242	15256	28281	1.93	1.0E-118	BE389705.1	EST_HUMAN	601281947F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604019 5'
2242	15256	28282	1.93	1.0E-118	BE389705.1	EST_HUMAN	601281947F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604019 5'
2337	15348		1.55	1.0E-118	AW951729.1	EST_HUMAN	EST383789 IMAGE sequences, MAGB Homo sapiens cDNA
2750	15743	28760	2.48	1.0E-118	U07000.1	NT	Human breakpoint cluster region (BCR) gene, complete cds
2750	15743	28761	2.48	1.0E-118	U07000.1	NT	Human breakpoint cluster region (BCR) gene, complete cds

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3121	16178		3.87	1.0E-118	Y13932.1	NT	Homo sapiens PRKY exon 7
3210	16265	29187	4.61	1.0E-118	A1347694.1	EST_HUMAN	qp01f05.x1 NC1_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1916769 3'
3210	16265	29188	4.61	1.0E-118	A1347694.1	EST_HUMAN	qp01f05.x1 NC1_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1916769 3'
3970	17010	29924	0.98	1.0E-118	AB024469.1	NT	Pongo pygmaeus DNA, similar to pol gene of HERV-W and MSRV, isolate:ORW3-3
4116	17149	30041	5.07	1.0E-118	D23660.1	NT	Human mRNA for ribosomal protein, complete cds
5497	18597	31508	1.86	1.0E-118	AF142624.1	NT	Homo sapiens calcium channel gamma 4 subunit (CACNG4) gene, exon 3
5497	18597	31509	1.86	1.0E-118	AF142624.1	NT	Homo sapiens calcium channel gamma 4 subunit (CACNG4) gene, exon 3
5713	18907	31994	0.66	1.0E-118	11422054	NT	Homo sapiens reelin (RELN), mRNA
5713	18907	31985	0.66	1.0E-118	11422054	NT	Homo sapiens reelin (RELN), mRNA
5800	18892	32074	0.58	1.0E-118	U08892.1	NT	Human GS2 gene, exon 6
5800	18892	32075	0.58	1.0E-118	U08892.1	NT	Human GS2 gene, exon 6
5865	18854	32141	1.44	1.0E-118	M55109.1	NT	Human cystic fibrosis transmembrane conductance regulator (CFTR) gene, exon 4
5862	19047	32247	0.95	1.0E-118	11425900	NT	Homo sapiens T-box 4 (TBX4), mRNA
5862	19047	32248	0.95	1.0E-118	11425900	NT	Homo sapiens T-box 4 (TBX4), mRNA
6053	19134	32343	1.81	1.0E-118	11420764	NT	Homo sapiens transient receptor potential channel 5 (TRPC5), mRNA
6849	19902	33196	1.79	1.0E-118	4557732	NT	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA
6849	19902	33197	1.79	1.0E-118	4557732	NT	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA
7304	20275	33611	1.07	1.0E-118	AL043761.1	EST_HUMAN	DKFZp434O0127_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434O0127 5'
7304	20275	33612	1.07	1.0E-118	AL043761.1	EST_HUMAN	DKFZp434O0127_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434O0127 5'
7658	20803	34179	5.13	1.0E-118	11431050	NT	Homo sapiens chromosome 2 open reading frame 3 (C2ORF3), mRNA
7672	20816	34194	0.72	1.0E-118	L46590.1	NT	Homo sapiens very long chain acyl-CoA dehydrogenase gene, exons 1-20, complete cds
8305	21274	34685	2.41	1.0E-118	BE781223.1	EST_HUMAN	601469159F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3872247 5'
8726	21694	35119	7.01	1.0E-118	BE062855.1	EST_HUMAN	QV0-BT0263-090200-097-h03 BT0263 Homo sapiens cDNA
8726	21694	35120	7.01	1.0E-118	BE062855.1	EST_HUMAN	QV0-BT0263-090200-097-h03 BT0263 Homo sapiens cDNA
8732	21700	35125	1.39	1.0E-118	AA443024.1	EST_HUMAN	z98d07.r1 Soares NIHMPu_S1 Homo sapiens cDNA clone IMAGE:811789 5'
8732	21700	35126	1.39	1.0E-118	AA443024.1	EST_HUMAN	z98d07.r1 Soares NIHMPu_S1 Homo sapiens cDNA clone IMAGE:811789 5'
9021	21987	35408	1.02	1.0E-118	AB002381.1	NT	Human mRNA for KIAA0383 gene, partial cds
9021	21987	35409	1.02	1.0E-118	AB002381.1	NT	Human mRNA for KIAA0383 gene, partial cds
9071	22037	35460	1.32	1.0E-118	4557732	NT	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA
9071	22037	35461	1.32	1.0E-118	4557732	NT	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA
9390	22355	35796	5.12	1.0E-118	BE263134.1	EST_HUMAN	601144863F2 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3160502 5'
9421	22386	35825	0.53	1.0E-118	AL048474.2	EST_HUMAN	DKFZp586K1824_r1 588 (synonym: huler) Homo sapiens cDNA clone DKFZp586K1824
9951	22878	36341	2.29	1.0E-118	7657016	NT	Homo sapiens hypothetical protein (D1328E19.C1.1), mRNA
10698	23620	37115	0.46	1.0E-118	BE736213.1	EST_HUMAN	601307146F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3941603 5'

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10698	23620	37116	0.46	1.0E-118	BE736213.1	EST_HUMAN	601307146F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3641603 5'
10741	23663	37158	2.31	1.0E-118	BF196407.1	EST_HUMAN	7n17e09.x1 NCI_CGAP_Brn23 Homo sapiens cDNA clone IMAGE:3664785 3' similar to SW:ZP3A_HUMAN
10899	23819	37328	0.54	1.0E-118	AW286351.1	EST_HUMAN	P21754 ZONA PELLUCIDA SPERM-BINDING PROTEIN 3A PRECURSOR ;
11607	24545	38106	6.48	1.0E-118	AA315007.1	EST_HUMAN	UI-H-BW0-ab-a-07-Q.U1.s1 NCI_CGAP_Sub6 Homo sapiens cDNA clone IMAGE:2729772 3'
11894	24765	38351	1.9	1.0E-118	BE908676.1	EST_HUMAN	EST186814 HCC cell line (metastasis to liver in mouse) II Homo sapiens cDNA 5' end similar to dynein, light chain 1, cytoplasmic
11884	24765	38352	1.9	1.0E-118	BE908676.1	EST_HUMAN	601499514F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3901563 5'
11887	24768	38355	1.51	1.0E-118	BF036637.1	EST_HUMAN	601499514F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3901563 5'
11887	24768	38356	1.51	1.0E-118	BF036637.1	EST_HUMAN	QV0-JM0091-120900-385-b12 UM0091 Homo sapiens cDNA
12036	24911		1.58	1.0E-118		NT	QV0-JM0091-120900-385-b12 UM0091 Homo sapiens cDNA
1038	16957	27034	1.75	1.0E-119	6325465	NT	Homo sapiens flap structure-specific endonuclease 1 (FEN1), mRNA
1950	14973	27972	2.88	1.0E-119	AB023147.1	NT	Homo sapiens CGI-105 protein (LOC51011), mRNA
3119	16176	29087	0.98	1.0E-119	8922205	NT	Homo sapiens mRNA for KIAA0930 protein, partial cds
3254	16308		0.68	1.0E-119	AA916760.1	EST_HUMAN	Homo sapiens hypothetical protein FLJ10052 (FLJ10052), mRNA
3975	17015	29929	1.12	1.0E-119	4504116	NT	on10b05.s1 NCI_CGAP_Lus Homo sapiens cDNA clone IMAGE:1568241 3' similar to WP:E04F6.2
5410	18513	31391	2.79	1.0E-119	AU133399	EST_HUMAN	CE01214 ;
5423	18526	31404	14.66	1.0E-119	M89914.1	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1), mRNA
5428	18531	31411	2.88	1.0E-119	BE936121.1	EST_HUMAN	AU133399 NT2RP4 Homo sapiens cDNA clone NT2RP4001991 5'
5508	18608	31538	1.55	1.0E-119	AV693731.1	EST_HUMAN	Human neurofibromin (NF1) gene, complete cds
5671	18766	31937	0.68	1.0E-119	AL134903.1	EST_HUMAN	RC1-NN0073-250800-018-g08 NN0073 Homo sapiens cDNA
5671	18766	31938	0.68	1.0E-119	AL134903.1	EST_HUMAN	AV693731 GKC Homo sapiens cDNA clone GKCDH803 5'
6250	19323	32553	7.38	1.0E-119	AH50703.1	EST_HUMAN	DKFp762M0710_r1 762 (synonym: hmel2) Homo sapiens cDNA clone DKFp762M0710 5'
6415	19483	32730	0.69	1.0E-119	AF315683.1	NT	DKFp762M0710_r1 762 (synonym: hmel2) Homo sapiens cDNA clone DKFp762M0710 5'
6415	19483	32731	0.69	1.0E-119	AF315683.1	NT	DKFp762M0710_r1 762 (synonym: hmel2) Homo sapiens cDNA clone DKFp762M0710 5'
6465	19500	32778	1	1.0E-119	AA76732.1	EST_HUMAN	qb77c09.x1 Soares_fetal_heart_NbHH19W Homo sapiens cDNA clone IMAGE:1706128 3' similar to
6604	19663	32936	2.67	1.0E-119	X06292.1	NT	SW:K1CJ_MOUSE P02535 KERA TIN, TYPE I CYTOSKELETAL 10 ;
6616	19674	32852	4.98	1.0E-119	AW974193.1	EST_HUMAN	Homo sapiens matrix metalloproteinase 28 (MMP28), complete cds
7640	20600	33984	1.3	1.0E-119	BE796614.1	EST_HUMAN	Homo sapiens matrix metalloproteinase 28 (MMP28), complete cds
9009	21975	35395	1.15	1.0E-119	BE615150.1	EST_HUMAN	hm23f10.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2157451 3'
10113	23039	36519	0.5	1.0E-119	11545921	NT	Human c-fes/fps proto-oncogene
10267	23192	36679	1.1	1.0E-119	11036643	NT	EST386298 MAGC resequences, MAGM Homo sapiens cDNA
						EST_HUMAN	601592005F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3946081 5'
						EST_HUMAN	601280564F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3622528 5'
						NT	Homo sapiens melanoma differentiation associated protein-5 (MDA5), mRNA
						NT	Homo sapiens KIAA0477 gene product (KIAA0477), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10608	23530	37025	5.31	1.0E-119	AA465124.1	EST_HUMAN	aa3205.r1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:814977 5'
10870	23790	37290	1.12	1.0E-119	AJ297701.1	NT	Homo sapiens partial IL-12RB1 gene for IL-12 receptor beta1 chain, exons 16-17
10911	23831	37344	0.73	1.0E-119	11425837	NT	Homo sapiens hypothetical protein FLJ10206 (FLJ10206), mRNA
10911	23831	37345	0.73	1.0E-119	11425837	NT	Homo sapiens hypothetical protein FLJ10206 (FLJ10206), mRNA
10985	23905	37419	0.79	1.0E-119	AB032261.1	NT	Homo sapiens Scd mRNA for stearoyl-CoA desaturase, complete cds
11394	24340	37870	1.86	1.0E-119	AJ297701.1	NT	Homo sapiens partial IL-12RB1 gene for IL-12 receptor beta1 chain, exons 16-17
11394	24340	37871	1.86	1.0E-119	AJ297701.1	NT	Homo sapiens partial IL-12RB1 gene for IL-12 receptor beta1 chain, exons 16-17
11535	24478		13.43	1.0E-119	BF669571.1	EST_HUMAN	602186072F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4310833 5'
12486	25901		3.21	1.0E-119	AW847519.1	EST_HUMAN	RC3-C10212-240989-011-f03 C10212 Homo sapiens cDNA
301	13395	26322	0.99	1.0E-120	4507334	NT	Homo sapiens synaptotagmin 1 (SYNJ1), mRNA
1042	14088	27040	1.6	1.0E-120	AF248540.1	NT	Homo sapiens Intersectin 2 (SH3D1B) mRNA, complete cds
1042	14088	27041	1.6	1.0E-120	AF248540.1	NT	Homo sapiens Intersectin 2 (SH3D1B) mRNA, complete cds
1422	14455	27429	2.56	1.0E-120	N44873.1	EST_HUMAN	yy40g12.r1 Soares melanocyte ZNbl-HM Homo sapiens cDNA clone IMAGE:273766 5'
1605	14637	27614	2.5	1.0E-120	AF167706.1	NT	Homo sapiens cysteine-rich repeat-containing protein S82 precursor, mRNA, complete cds
1823	14850	27844	1.4	1.0E-120	4557250	NT	Homo sapiens disintegrin and metalloprotease domain 10 (ADAM10) mRNA
2534	15637	28558	1.08	1.0E-120	4755124	NT	Homo sapiens aquaporin 4 (AQP4), splice variant b, mRNA
3318	13395	26322	1.34	1.0E-120	4507334	NT	Homo sapiens synaptotagmin 1 (SYNJ1), mRNA
4385	17413	30297	1.81	1.0E-120	AF056490.1	NT	Homo sapiens cAMP-specific phosphodiesterase 8A (PDE8A) mRNA, partial cds
4385	17413	30298	1.81	1.0E-120	AF056490.1	NT	Homo sapiens cAMP-specific phosphodiesterase 8A (PDE8A) mRNA, partial cds
4691	17712	30606	2.67	1.0E-120	AF098463.1	NT	Homo sapiens stannocalcin (STC) gene, partial cds
4691	17712	30607	2.67	1.0E-120	AF098463.1	NT	Homo sapiens stannocalcin (STC) gene, partial cds
5825	18915	32098	13.85	1.0E-120	BF56822.1	EST_HUMAN	602183994F1 NIH_MGC_42 Homo sapiens cDNA clone IMAGE:4300174 5'
5825	18915	32099	13.85	1.0E-120	BF56822.1	EST_HUMAN	602183994F1 NIH_MGC_42 Homo sapiens cDNA clone IMAGE:4300174 5'
6583	19843	32910	0.53	1.0E-120	M29428.1	NT	Human P-glycoprotein (MDR1) gene, exons 6 and 7
6583	19843	32911	0.53	1.0E-120	M29428.1	NT	Human P-glycoprotein (MDR1) gene, exons 6 and 7
7823	20771	34147	1.84	1.0E-120	D34619.1	NT	Human TBXAS1 gene for thromboxane synthase, exon 7
8226	21195	34602	1.76	1.0E-120	Y00067.1	NT	Human gene for neurofilament subunit M (NF-M)
8226	21195	34603	1.76	1.0E-120	Y00067.1	NT	Human gene for neurofilament subunit M (NF-M)
8875	21643	35088	2.82	1.0E-120	BF337899.1	EST_HUMAN	602035352F1 NCI_CGAP_Bn64 Homo sapiens cDNA clone IMAGE:4183333 5'
8747	21715	35138	0.75	1.0E-120	AB033057.1	NT	Homo sapiens mRNA for KIAA1231 protein, partial cds
8747	21715	35139	0.75	1.0E-120	AB033057.1	NT	Homo sapiens mRNA for KIAA1231 protein, partial cds
8751	21719	35141	2.5	1.0E-120	AB007964.1	NT	Homo sapiens mRNA, chromosome 1 specific transcript KIAA0495
8751	21719	35142	2.5	1.0E-120	AB007964.1	NT	Homo sapiens mRNA, chromosome 1 specific transcript KIAA0495
8796	21763	35185	1.13	1.0E-120	AB007934.1	NT	Homo sapiens mRNA for KIAA0465 protein, partial cds

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9859	22795	36247	4.14	1.0E-120	BE392102.1	EST_HUMAN	601307739F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3625544 5'
9859	22795	36248	4.14	1.0E-120	BE392102.1	EST_HUMAN	601307739F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3625544 5'
10102	23028	36505	3.99	1.0E-120	BF306541.1	EST_HUMAN	60188956F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4122876 5'
10118	23044	36524	7.33	1.0E-120	AU133205.1	EST_HUMAN	AU133205 NT2RP4 Homo sapiens cDNA clone NT2RP4001541 5'
10135	23061	36539	0.67	1.0E-120	AL049801.1	NT	Novel human gene mapping to chromosome 13, similar to rat RhoGAP
10252	23177		0.51	1.0E-120	AI904151.1	EST_HUMAN	CM-BT043-090298-075 BT043 Homo sapiens cDNA
10436	23358	36846	3.02	1.0E-120	AB028000.1	NT	Homo sapiens mRNA for KIAA1077 protein, partial cds
11461	24404	37952	19.45	1.0E-120	BE296397.1	EST_HUMAN	601176727F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3532015 5'
11672	24536	38216	2.5	1.0E-120	BE867619.1	EST_HUMAN	601443135F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847281 5'
11672	24638	38217	2.5	1.0E-120	BE867619.1	EST_HUMAN	601443135F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847281 5'
11963	24842	38436	2.23	1.0E-120	U94774.1	NT	Human muscle glycogen phosphorylase (PYGM) gene, 5'UTR and exon 1
12632	25318	31785	1.45	1.0E-120	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
74	13191	26113	0.97	1.0E-121	Y18000.1	NT	Homo sapiens NF2 gene
378	13462	26392	1.92	1.0E-121	AU134963.1	EST_HUMAN	AU134963 PLACE1 Homo sapiens cDNA clone PLACE1000899 5'
725	15848	26721	1.83	1.0E-121	5032192	NT	Homo sapiens TNF receptor-associated factor 1 (TRAF1) mRNA
1963	15004	28007	1.17	1.0E-121	4755139	NT	Homo sapiens inositol polyphosphate-4-phosphatase, type I, 107KD (INPP4A), splice variant a, mRNA
1963	15004	28008	1.17	1.0E-121	4755139	NT	Homo sapiens inositol polyphosphate-4-phosphatase, type I, 107KD (INPP4A), splice variant a, mRNA
2112	15129	28149	1.36	1.0E-121	L76631.1	NT	Homo sapiens metabotropic glutamate receptor 1 beta (mGluR1beta) mRNA, complete cds
2980	16038	28961	1.69	1.0E-121	AF111168.2	NT	Homo sapiens serine palmitoyl transferase, subunit II gene, complete cds; and unknown genes
3087	16154	29067	3.41	1.0E-121	Y19208.1	NT	Homo sapiens hhlb3 gene for hair keratin, exons 1 to 9
3097	16154	29068	3.41	1.0E-121	Y19208.1	NT	Homo sapiens hhlb3 gene for hair keratin, exons 1 to 9
3547	16593	29518	0.84	1.0E-121	AB037758.1	NT	Homo sapiens mRNA for KIAA1337 protein, partial cds
3547	16593	29519	0.84	1.0E-121	AB037758.1	NT	Homo sapiens mRNA for KIAA1337 protein, partial cds
3690	16733	29646	8.63	1.0E-121	AF151562.2	NT	Homo sapiens adaptor-related protein complex AP-4 epsilon subunit mRNA, complete cds
4358	17385	30287	1.39	1.0E-121	AL263294.1	EST_HUMAN	q57901.x1 NCI_CGAP_Par1 Homo sapiens cDNA clone IMAGE:2005417 3'
5012	18026	30911	3.4	1.0E-121	X91937.1	NT	H sapiens ECE-1 gene (exon 17)
5182	18191	31067	0.93	1.0E-121	4507334	NT	Homo sapiens synaptotagmin 1 (SYNJ1), mRNA
5340	18445	31198	0.86	1.0E-121	BE222250.1	EST_HUMAN	hu0808.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3168119 3'
5841	18737	31901	0.58	1.0E-121	BE271424.1	EST_HUMAN	601140485F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3049820 5'
7072	20094		0.7	1.0E-121	AJ271736.1	NT	Homo sapiens Xa pseudautosomal region, segment 2/2
7155	18387	31230	0.82	1.0E-121	AW898086.1	EST_HUMAN	RC3-NN0066-270-400-011-402 NN0066 Homo sapiens cDNA
7155	18387	31231	0.82	1.0E-121	AW898086.1	EST_HUMAN	RC3-NN0066-270-400-011-402 NN0066 Homo sapiens cDNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8269	21238	34649	1.57	1.0E-121	11438217	NT	Homo sapiens gamma-aminobutyric acid (GABA) A receptor, alpha 2 (GABRA2), mRNA
8273	21242	34653	2.22	1.0E-121	D84122.1	NT	Homo sapiens DNA for prostacyclin synthase, exon 8
8273	21242	34654	2.22	1.0E-121	D84122.1	NT	Homo sapiens DNA for prostacyclin synthase, exon 8
10217	23142	36630	0.79	1.0E-121	AW583858.1	EST_HUMAN	ia05g05.v1 Human Pancreatic Islets Homo sapiens cDNA 5' similar to TR:O75457 O75457 CYTOSOLIC PHOSPHOLIPASE A2-GAMMA.
10217	23142	36631	0.79	1.0E-121	AW583858.1	EST_HUMAN	ia05g05.v1 Human Pancreatic Islets Homo sapiens cDNA 5' similar to TR:O75457 O75457 CYTOSOLIC PHOSPHOLIPASE A2-GAMMA.
11130	24090	37619	1.87	1.0E-121	11427788	NT	Homo sapiens COX11 (yeast) homodog, cytochrome c oxidase assembly protein (COX11), mRNA
11136	24096	37625	1.52	1.0E-121	AF064200.1	NT	Homo sapiens UDP-glucuronosyltransferase 2B4 precursor (UGT2B4) mRNA, UGT2B4*E458 allele, complete cds
11315	24265	37793	3.61	1.0E-121	7330334	NT	Homo sapiens chloride intracellular channel 4 like (CLIC4L), mRNA
11340	24280	37815	3.42	1.0E-121	N59624.1	EST_HUMAN	y74c01.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:248448 3'
11684	24600	38175	4.22	1.0E-121	AU119320.1	EST_HUMAN	AU119320 HEMBA1 Homo sapiens cDNA clone HEMBA1005536 5'
267	13363	26287	2.23	1.0E-122	11526176	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1), mRNA
336	13425	26347	3.36	1.0E-122	AF114488.1	NT	Homo sapiens intersectin short isoform (ITSN) mRNA, complete cds
358	13445	26372	2.1	1.0E-122	11526176	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1), mRNA
883	13938	26897	3.29	1.0E-122	AF114488.1	NT	Homo sapiens intersectin short isoform (ITSN) mRNA, complete cds
1224	14262	27219	16.66	1.0E-122	M20707.1	NT	Human kappa-immunoglobulin germline pseudogene (Chr22.4) variable region (subgroup V kappa II)
1702	14732	27714	1.02	1.0E-122	AF167706.1	NT	Homo sapiens cysteine-rich repeat-containing protein S52 precursor, mRNA, complete cds
1725	14755	27741	1.67	1.0E-122	11418424	NT	Homo sapiens collagen, type XII, alpha 1 (COL12A1), mRNA
1725	14755	27742	1.67	1.0E-122	11418424	NT	Homo sapiens collagen, type XII, alpha 1 (COL12A1), mRNA
1831	14858	27856	5.11	1.0E-122	BE906024.1	EST_HUMAN	601497032F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3899358 5'
2489	15502	28528	8.15	1.0E-122	BF316170.1	EST_HUMAN	601896173F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4125234 5'
2499	15502	28529	8.15	1.0E-122	BF316170.1	EST_HUMAN	601896173F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4125234 5'
2851	15911	28634	0.91	1.0E-122	AF264717.1	NT	Homo sapiens FYVE domain-containing dual specificity protein phosphatase FYVE-DSP2 mRNA, complete cds
4883	17900	30789	1.03	1.0E-122	4502166	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
5025	18039		1.4	1.0E-122	AW504845.1	EST_HUMAN	UI-HF-BNO-all-a-03-0-U1.1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3079948 5'
5643	18739	31904	1.31	1.0E-122	BE256039.1	EST_HUMAN	601113567F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3354232 5'
6920	18739	31904	7.59	1.0E-122	BE256039.1	EST_HUMAN	601113567F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3354232 5'
7422	20389	33740	0.6	1.0E-122	AA868671.1	EST_HUMAN	ak49K06.s1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:1409339 3'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8135	21072	34471	0.51	1.0E-122	AA224259.1	EST_HUMAN	zr15a03.r1 Stratagene NT2 neuronal precursor 937230 Homo sapiens cDNA clone IMAGE:863436 5' similar to TR:G940370 G940370 1-AMINOCYCLOPROPANE-1-CARBOXYLATE SYNTHASE ;
8135	21072	34472	0.51	1.0E-122	AA224259.1	EST_HUMAN	zr15a03.r1 Stratagene NT2 neuronal precursor 937230 Homo sapiens cDNA clone IMAGE:863436 5' similar to TR:G940370 G940370 1-AMINOCYCLOPROPANE-1-CARBOXYLATE SYNTHASE ;
9148	22114	35539	0.56	1.0E-122	AJ276801.1	NT	Homo sapiens mRNA for doublesex and mab-3 related transcription factor 1 (DMRT1)
9383	22348	35780	1.17	1.0E-122	11424216	NT	Homo sapiens lethal giant larvae (Drosophila) homolog 2 (L1GL2), mRNA
9678	22631	36086	0.78	1.0E-122	A1359618.1	EST_HUMAN	qy2h07.x1 NCI_CGAP_Brn23 Homo sapiens cDNA clone IMAGE:2013757 3' similar to SW:MTA1_HUMAN Q13330 METASTASIS-ASSOCIATED PROTEIN MTA1 ;
9678	22631	36087	0.78	1.0E-122	A1359618.1	EST_HUMAN	qy2h07.x1 NCI_CGAP_Brn23 Homo sapiens cDNA clone IMAGE:2013757 3' similar to SW:MTA1_HUMAN Q13330 METASTASIS-ASSOCIATED PROTEIN MTA1 ;
10493	23415	36913	0.77	1.0E-122	AL117234.1	NT	Novel human gene mapping to chromosome X, isoform of dcl (proto-oncogene)
11714	24677	38255	6.11	1.0E-122	A8024068.1	NT	Homo sapiens gene for B120, exon 10
12102	24973	38570	1.5	1.0E-122	11434816	NT	Homo sapiens thyroid hormone receptor interactor 11 (TRIP11), mRNA
12228	25063		5.83	1.0E-122	11418187	NT	Homo sapiens phosphomannomutase 1 (PMM1), mRNA
13107	14262	27219	3.03	1.0E-122	M20707.1	NT	Human kappa-immunoglobulin germline pseudogene (Chr22.4) variable region (subgroup V kappa II)
769	13828	26772	1.18	1.0E-123	BF345274.1	EST_HUMAN	602018058F1 NCI_CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4153670 5'
769	13828	26773	1.18	1.0E-123	BF345274.1	EST_HUMAN	602018058F1 NCI_CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4153670 5'
1015	14063	27014	5.55	1.0E-123	AL163249.2	NT	Homo sapiens chromosome 21 segment HS21C049
1024	14070	27021	2.2	1.0E-123	5803114	NT	Homo sapiens inner membrane protein, mitochondrial (mitofilin) (IMMT), mRNA
1243	14279	27241	5.25	1.0E-123	4505818	NT	Homo sapiens phosphatidylinositol-4-phosphate 5-kinase, type II, beta (PIP5K2B) mRNA, and translated products
1243	14279	27242	5.25	1.0E-123	4505818	NT	Homo sapiens phosphatidylinositol-4-phosphate 5-kinase, type II, beta (PIP5K2B) mRNA, and translated products
1449	14482	27459	83.95	1.0E-123	AJ388641.1	NT	Homo sapiens partial mRNA for immunoglobulin kappa chain variable region (IGVK gene), sample GN02
2109	15126	28145	2.75	1.0E-123	M55419.1	NT	Human amelogenin (AMELY) gene, 3' end of cds
2109	15126	28146	2.75	1.0E-123	M55419.1	NT	Human amelogenin (AMELY) gene, 3' end of cds
2109	15126	28147	2.75	1.0E-123	M55419.1	NT	Human amelogenin (AMELY) gene, 3' end of cds
2323	15334		3.14	1.0E-123	7705962	NT	Homo sapiens RAB9-like protein (LOC51209), mRNA
3264	16318	29239	1.52	1.0E-123	6912617	NT	Homo sapiens glutamyl-peptide cyclotransferase (glutamyl cyclase) (QPCT), mRNA
5522	18621	31555	1.58	1.0E-123	L34219.1	NT	Homo sapiens retinaldehyde-binding protein (CRALBP) gene, complete cds
5522	18621	31556	1.58	1.0E-123	L34219.1	NT	Homo sapiens retinaldehyde-binding protein (CRALBP) gene, complete cds
5661	18757	31925	1.31	1.0E-123	BE789746.1	EST_HUMAN	601591108F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3945433 5'

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6613	19671	32949	1.97	1.0E-123	AU118435.1	EST_HUMAN	AU118435 HEMBA1 Homo sapiens cDNA clone HEMBA1003591 5'
7199	20223	33554	0.83	1.0E-123	H53198.1	EST_HUMAN	yq84a03.r1 Soares fetal liver spleen 1N1FLS Homo sapiens cDNA clone IMAGE:202444 5' similar to SP-YAK1_YEAST P14680 PROTEIN KINASE YAK1 ;
7212	20235	33569	1.24	1.0E-123	U42224.1	NT	Human growth hormone releasing hormone gene, exon 7
7400	20368	33721	0.57	1.0E-123	U55288.1	NT	Human HBRAYOIN-CAM precursor (HBRAYOIN-CAM) gene, complete cds
7632	20592	33955	0.9	1.0E-123	11525833	NT	Homo sapiens heparan sulfate (glucosaminide) 3-O-sulfotransferase 2 (HS3ST2), mRNA
7904	20847	34232	1.29	1.0E-123	11436439	NT	Homo sapiens 2'-5'-oligoadenylate synthetase 2 (OAS2), mRNA
7913	20856	34244	1.87	1.0E-123	BE263001.1	EST_HUMAN	601152819F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3509162 5'
8063	21020	34419	0.71	1.0E-123	N35841.1	EST_HUMAN	yx89d11.1 Soares melanocyte 2NbhM Homo sapiens cDNA clone IMAGE:268917 5' similar to PIR:S49611 S49611 protein kinase Pkpa - Phycomyces blakesleeanus ;
8083	21020	34420	0.71	1.0E-123	N35841.1	EST_HUMAN	yx89d11.1 Soares melanocyte 2NbhM Homo sapiens cDNA clone IMAGE:268917 5' similar to PIR:S49611 S49611 protein kinase Pkpa - Phycomyces blakesleeanus ;
8248	21217	34626	0.5	1.0E-123	AU131881.1	EST_HUMAN	AU131881 NT2RP3 Homo sapiens cDNA clone NT2RP3003409 5'
8248	21217	34627	0.5	1.0E-123	AU131881.1	EST_HUMAN	AU131881 NT2RP3 Homo sapiens cDNA clone NT2RP3003409 5'
8890	21847		1.43	1.0E-123	AW371924.1	EST_HUMAN	RC4-BT0311-251199-012-a07 BT0311 Homo sapiens cDNA
9724	22762	36205	2.03	1.0E-123	AB007923.1	NT	Homo sapiens mRNA for KIAA0454 protein, partial cds
9863	22799	36253	31.72	1.0E-123	U09823.1	NT	Oryctolagus cuniculus New Zealand white elongation factor 1 alpha (Rabefla2) mRNA, complete cds
10370	23293		0.44	1.0E-123	4504806	NT	Homo sapiens jerky (mouse) homolog-like (JRL), mRNA
12029	24905	38499	5.3	1.0E-123	BF677292.1	EST_HUMAN	60208679F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4250879 5'
12029	24905	38500	5.3	1.0E-123	BF677292.1	EST_HUMAN	60208679F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4250879 5'
268	13364	26288	1.18	1.0E-124	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
268	13364	26289	1.18	1.0E-124	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
274	13370		0.79	1.0E-124	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
486	13559	26485	2.11	1.0E-124	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
692	13754	26683	8.04	1.0E-124	AA397551.1	EST_HUMAN	z811504.r1 Stralagene schizo brain S11 Homo sapiens cDNA clone IMAGE:728719 5' similar to TR:G300482
692	13754	26684	8.04	1.0E-124	AA397551.1	EST_HUMAN	G300482 POL=REVERSE TRANSCRIPTASE HOMOLOG (RETROVIRAL ELEMENT) ;
758	13818	26763	6.06	1.0E-124	AF155654.1	EST_HUMAN	z811504.r1 Stralagene schizo brain S11 Homo sapiens cDNA clone IMAGE:728719 5' similar to TR:G300482
809	13897	26816	1.34	1.0E-124	4507500	NT	Human putative ribosomal protein S1 mRNA
905	13960	26916	4.34	1.0E-124	7705446	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
1349	14384	27352	12.68	1.0E-124	AF274892.1	NT	Homo sapiens hypothetical protein (HSPC068), mRNA
1349	14384	27353	12.68	1.0E-124	AF274892.1	NT	Homo sapiens glucose transporter 3 gene, exons 9, 10, and complete cds

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Table 4
Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1932	14959	27857	2.84	1.0E-124	AJ131712.1	NT	Homo sapiens mRNA for nuclear RNA-helicase (nclh1 gene)
2078	15093	28110	1.59	1.0E-124	BE879624.1	EST_HUMAN	601491715F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3893954 5'
2463	15467	28490	1.29	1.0E-124	AB024069.1	NT	Homo sapiens gene for B120, exon 11
3502	16549	29475	0.81	1.0E-124	S78684.1	NT	Homo sapiens ATP-sensitive inwardly rectifying K-channel subunit (KCNJ8/BIR1) gene, exon
3502	16549	29475	0.81	1.0E-124	S78684.1	NT	Homo sapiens ATP-sensitive inwardly rectifying K-channel subunit (KCNJ8/BIR1) gene, exon
3915	16955	29897	0.84	1.0E-124	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
4102	17136	30031	0.95	1.0E-124	4504116	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
4772	17792	30683	0.81	1.0E-124	BE220437.1	EST_HUMAN	h39a07.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3175788 3'
4775	17795	30687	1.67	1.0E-124	AB024069.1	NT	Homo sapiens gene for B120, exon 11
5370	18475	31348	10.25	1.0E-124	8922337	NT	Homo sapiens hypothetical protein FLJ103000 (FLJ103000), mRNA
5755	18949	32029	1.03	1.0E-124	4506786	NT	Homo sapiens IQ motif containing GTPase activating protein 1 (IQGAP1) mRNA
5889	19074	32272	6.55	1.0E-124	BF696135.1	EST_HUMAN	602124944F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4281635 5'
6293	19365	32604	0.67	1.0E-124	AV711263.1	EST_HUMAN	AV711263 Cu Homo sapiens cDNA clone GwAADF07 5'
6572	19632	32899	0.78	1.0E-124	11420854	NT	Homo sapiens ubiquitin specific protease 9, X chromosome (Drosophila fat facets related) (USP9X), mRNA
7208	20231	33564	2.95	1.0E-124	Y11717.1	NT	M. musculus mRNA for hoxa3 gene
7344	20315	33859	1.04	1.0E-124	BE271285.1	EST_HUMAN	600943771F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:2968685 5'
7344	20315	33860	1.04	1.0E-124	BE271285.1	EST_HUMAN	600943771F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:2968685 5'
7801	20753	34129	2.59	1.0E-124	AA630331.1	EST_HUMAN	ac08h05.s1 Stratagene HeLa cell s3 937216 Homo sapiens cDNA clone IMAGE:855897 3'
8128	21085	34464	1.78	1.0E-124	M37277.1	NT	Human Ig germline H-chain D-region genes, partial cds
8128	21085	34465	1.78	1.0E-124	M37277.1	NT	Human Ig germline H-chain D-region genes, partial cds
8601	21569	34985	13.39	1.0E-124	4506654	NT	Homo sapiens ribosomal protein L5 (RPL5) mRNA
8806	21773	35198	1.25	1.0E-124	AW612106.1	EST_HUMAN	hg94a09.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2953240 3' similar to TR:Q95162
8806	21773	35199	1.25	1.0E-124	AW612106.1	EST_HUMAN	O95162 PEROXISOMAL SHORT-CHAIN ALCOHOL DEHYDROGENASE ;
9317	22480	35924	0.62	1.0E-124	AI798894.1	EST_HUMAN	O95162 PEROXISOMAL SHORT-CHAIN ALCOHOL DEHYDROGENASE ;
9317	22480	35925	0.62	1.0E-124	AI798894.1	EST_HUMAN	wc43g03.x1 NCI_CGAP_P128 Homo sapiens cDNA clone IMAGE:2321428 3'
9346	22782	36236	1.85	1.0E-124	AV645633.1	EST_HUMAN	wc43g03.x1 NCI_CGAP_P128 Homo sapiens cDNA clone IMAGE:2321428 3'
9346	22782	36237	1.85	1.0E-124	AV645633.1	EST_HUMAN	AV645633 GLC Homo sapiens cDNA clone GLCACE04 3'
9337	22864	36325	0.66	1.0E-124	AF022655.1	NT	Homo sapiens cep250 centrosome associated protein mRNA, complete cds
9337	22864	36328	0.68	1.0E-124	AF022655.1	NT	Homo sapiens cep250 centrosome associated protein mRNA, complete cds
9367	22894	36356	8.08	1.0E-124	AI767133.1	EST_HUMAN	wf63f02.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2400891 3'
9367	22894	36357	8.08	1.0E-124	AI767133.1	EST_HUMAN	wf63f02.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2400891 3'

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Table 4
Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E- Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10230	23155	36845	1.75	1.0E-124	AW503755.1	EST_HUMAN	U1-HF-BN0-ekz-b-04-0-U1.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078846 5'
11386	24333	37862	1.53	1.0E-124	U94776.1	NT	Human muscle glycogen phosphorylase (PYGM) gene, exons 6 through 17
11660	24596	38189	5.95	1.0E-124	AW665663.1	EST_HUMAN	h05c06.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2880908 3'
11801	23956	37479	2.06	1.0E-124	AI448455.1	EST_HUMAN	h19a03.x1 NCL_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2141980 3' similar to TR:O31682 O31662 YKRS PROTEIN ;
11801	23956	37480	2.06	1.0E-124	AI448455.1	EST_HUMAN	h19a03.x1 NCL_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2141980 3' similar to TR:O31682 O31662 YKRS PROTEIN ;
12305	13754	26683	4.06	1.0E-124	AA397551.1	EST_HUMAN	z81b04.r1 Strategene schizo brain S11 Homo sapiens cDNA clone IMAGE:728719 5' similar to TR:G300482 G300482 POL=REVERSE TRANSCRIPTASE HOMOLOG (RETROVIRAL ELEMENT) ;
12305	13754	26684	4.06	1.0E-124	AA397551.1	EST_HUMAN	z81b04.r1 Strategene schizo brain S11 Homo sapiens cDNA clone IMAGE:728719 5' similar to TR:G300482 G300482 POL=REVERSE TRANSCRIPTASE HOMOLOG (RETROVIRAL ELEMENT) ;
12730	25383	31749	1.36	1.0E-124	AB029016.1	NT	Homo sapiens mRNA for KIAA1093 protein, partial cds
12993	25852	31436	1.67	1.0E-124	11417862	NT	Homo sapiens calcitriol binding protein 1 (KIAA0330), mRNA
12993	25852	31437	1.67	1.0E-124	11417862	NT	Homo sapiens calcitriol binding protein 1 (KIAA0330), mRNA
319	13411		10.43	1.0E-125	AB032968.1	NT	Homo sapiens mRNA for KIAA1172 protein, partial cds
426	13121	25019	5.43	1.0E-125	BE743922.1	EST_HUMAN	601577981F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3926685 5'
645	13711	26632	1.26	1.0E-125	AI110656.1	EST_HUMAN	HA0086 Human fetal liver cDNA library Homo sapiens cDNA
645	13711	26633	1.26	1.0E-125	AI110656.1	EST_HUMAN	HA0086 Human fetal liver cDNA library Homo sapiens cDNA
729	13780	26725	2.34	1.0E-125	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
861	13917	26875	1.61	1.0E-125	AA042813.1	EST_HUMAN	z63c07.s1 Soares_pregnant_uterus_Ndr-IPU Homo sapiens cDNA clone IMAGE:485540 3' similar to gb:X65857_cds1 OLFACTORY RECEPTOR-LIKE PROTEIN HGMPO7E (HUMAN);
1000	14051	27003	1.16	1.0E-125	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
1156	14198	27148	2.2	1.0E-125	7662279	NT	Homo sapiens KIAA0744 gene product; histone deacetylase 7 (KIAA0744), mRNA
1682	15874	27692	1.99	1.0E-125	7661867	NT	Homo sapiens KIAA0022 gene product (KIAA0022), mRNA
1817	14844	27836	1.65	1.0E-125	U78027.1	NT	Homo sapiens Bruton's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein (L44L) and FTP3 (FTP3) genes, complete cds
1828	14855	27852	2.84	1.0E-125	AF015450.1	NT	Homo sapiens Usurin-alpha mRNA, complete cds
1828	14855	27853	2.84	1.0E-125	AF015450.1	NT	Homo sapiens Usurin-alpha mRNA, complete cds
2366	15374	28395	1.78	1.0E-125	AA011278.1	EST_HUMAN	z01g09.r1 Soares_fetal_liver_splice_1NFL_S_S1 Homo sapiens cDNA clone IMAGE:429568 5'
2804	15604	28626	1.19	1.0E-125	4504696	NT	Homo sapiens inhibin, alpha (INH) mRNA
2804	15604	28627	1.19	1.0E-125	4504696	NT	Homo sapiens inhibin, alpha (INH) mRNA
3022	18311	29001	1.19	1.0E-125	BE018009.1	EST_HUMAN	bb74f06.v1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3048131 5' similar to TR:O95604 O95604 ZINC FINGER PROTEIN ;

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3872	16911	29921	1.11	1.0E-125	AA042813.1	EST_HUMAN	zK63c07.s1 Soares_pregnant_uterus_NHPU Homo sapiens cDNA clone IMAGE:486540 3' similar to gb:X65857_cds1 OLFATORY RECEPTOR-LIKE PROTEIN HGMP07E (HUMAN);
4580	17602	30498	1.86	1.0E-125	11425114	NT	Homo sapiens zinc finger protein ZNF287 (ZNF287), mRNA
4580	17602	30499	1.86	1.0E-125	11425114	NT	Homo sapiens zinc finger protein ZNF287 (ZNF287), mRNA
4648	17669	30556	1.66	1.0E-125	BE315412.1	EST_HUMAN	601141152F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3140786 5'
5973	18058	32259	1.47	1.0E-125	11436448	NT	Homo sapiens KIAA0985 protein (KIAA0985), mRNA
5994	18078	32275	1.01	1.0E-125	BE175169.1	EST_HUMAN	QV2-HT0577-010500-166-b06 HT0577 Homo sapiens cDNA
6041	18123	32328	3.58	1.0E-125	BE892680.1	EST_HUMAN	601433472F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3918952 5'
6086	19168	32378	0.6	1.0E-125	AB78904.1	EST_HUMAN	tu67c07.x1 NCL_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2266108 3' similar to WP:C4509.2 CE01854;
6413	19481	32728	0.88	1.0E-125	BE738056.1	EST_HUMAN	601308670F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3640097 5'
6733	19789	33068	1.29	1.0E-125	BE562526.1	EST_HUMAN	601335826F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3689790 5'
6733	19789	33069	1.29	1.0E-125	BE562526.1	EST_HUMAN	601335826F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3689790 5'
7263	19998	33296	5.05	1.0E-125	X03427.1	NT	Homo sapiens IGF-II gene, exon 5
7263	19998	33297	5.05	1.0E-125	X03427.1	NT	Homo sapiens IGF-II gene, exon 5
7775	20728	34100	1.04	1.0E-125	BE278823.1	EST_HUMAN	601159078F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3505603 5'
8032	20969	34363	0.54	1.0E-125	11425572	NT	Homo sapiens adaptor-related protein complex 2, beta 1 subunit (AP2B1), mRNA
8891	21857	35278	0.99	1.0E-125	U90288.1	NT	Human chromosome 10 duplicated adrenoleukodystrophy (ALD) gene segment containing exons 8-10
8891	21857	35279	0.99	1.0E-125	U90288.1	NT	Human chromosome 10 duplicated adrenoleukodystrophy (ALD) gene segment containing exons 8-10
9473	22437	35875	12.5	1.0E-125	BE181640.1	EST_HUMAN	QV1-HT0638-070500-191-d12 HT0638 Homo sapiens cDNA
9473	22437	35878	12.5	1.0E-125	BE181640.1	EST_HUMAN	QV1-HT0638-070500-191-d12 HT0638 Homo sapiens cDNA
9736	22764	36219	0.93	1.0E-125	AI565996.1	EST_HUMAN	tr52b03.x1 NCL_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2171981 3' similar to TR:Q14089 Q14089 HYPOTHETICAL PROTEIN;
10819	23740	37242	0.65	1.0E-125	BE794576.1	EST_HUMAN	601590345F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3944631 5'
10860	23780	37280	0.74	1.0E-125	AB002288.1	NT	Human mRNA for KIAA0300 gene, partial cds
11042	24006	37333	2.54	1.0E-125	AF043458.1	NT	Homo sapiens hREL gene, exon 5
11124	24084	37610	1.97	1.0E-125	AW131202.1	EST_HUMAN	x5902.x1 NCL_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2622363 3' similar to TR:Q13284 Q13284 LAMBDA/IOTA PROTEIN KINASE C-INTERACTING PROTEIN. [1];
11124	24084	37611	1.97	1.0E-125	AW131202.1	EST_HUMAN	x5902.x1 NCL_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2622363 3' similar to TR:Q13284 Q13284 LAMBDA/IOTA PROTEIN KINASE C-INTERACTING PROTEIN. [1];
11471	24414	37963	2.99	1.0E-125	AB014587.1	NT	Homo sapiens mRNA for KIAA0667 protein, partial cds
11621	24559	38121	2.06	1.0E-125	7689505	NT	Homo sapiens myosin, heavy polypeptide 1, skeletal muscle, adult (MYH1), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11626	24564	38126	5	1.0E-125	AF026029.1	NT	Homo sapiens p4(A) binding protein II (PABP2) gene, complete cds
11729	24815	38192	1.68	1.0E-125	AW812899.1	EST_HUMAN	RC3-ST0186-260200-018-c11 ST0186 Homo sapiens cDNA
11830	24713	38296	4.32	1.0E-125	BE074267.1	EST_HUMAN	QV3-BT0569-020200-075-g09 BT0569 Homo sapiens cDNA
11830	24713	38297	4.32	1.0E-125	BE074267.1	EST_HUMAN	QV3-BT0569-020200-075-g09 BT0569 Homo sapiens cDNA
12106	18942	32127	1.48	1.0E-125	BF683645.1	EST_HUMAN	802139874F1 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:4300770 5'
775	13834	26780	6.16	1.0E-126	4758007	NT	Homo sapiens GDC-like kinase (GLK) mRNA
920	13974	26926	0.8	1.0E-126	X68735.1	NT	H. sapiens gene for alpha1-antitrypsin, exon 3
2352	15361	28383	0.91	1.0E-126	8923056	NT	Homo sapiens hypothetical protein FLJ20048 (FLJ20048), mRNA
2352	15361	28384	0.91	1.0E-126	8923056	NT	Homo sapiens hypothetical protein FLJ20048 (FLJ20048), mRNA
2605	15605	28628	1.41	1.0E-126	6382078	NT	Homo sapiens RAN binding protein 2 (RANBP2), mRNA
3087	16145	29058	7.58	1.0E-126	AA160709.1	EST_HUMAN	zo72c03.r1 Stralagene pancreas (#937208) Homo sapiens cDNA clone IMAGE:592420 5'
3087	16145	29059	7.58	1.0E-126	AA160709.1	EST_HUMAN	zo72c03.r1 Stralagene pancreas (#937208) Homo sapiens cDNA clone IMAGE:592420 5'
3088	16146	29060	1.02	1.0E-126	BF510408.1	EST_HUMAN	UI-H-BI4-acc-b-05-Q-UJ.s1 NCL_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3084608 3'
3088	16146	29061	1.02	1.0E-126	BF510408.1	EST_HUMAN	UI-H-BI4-acc-b-05-Q-UJ.s1 NCL_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3084608 3'
3645	16888	29603	0.75	1.0E-126	X63941.1	NT	H. sapiens DNA for liver cytochrome b5 pseudogene
3668	16711	29626	2.09	1.0E-126	7657038	NT	Homo sapiens death receptor 6 (DR6), mRNA
4826	17843	30741	1.15	1.0E-126	AF101108.1	NT	Homo sapiens collagen type XI alpha-1 (COL11A1) gene, exon 63
4826	17843	30742	1.15	1.0E-126	AF101108.1	NT	Homo sapiens collagen type XI alpha-1 (COL11A1) gene, exon 63
4872	17889	30777	1.38	1.0E-126	N34078.1	EST_HUMAN	yx78c06.r1 Soares melanocytes 2NbHM Homo sapiens cDNA clone IMAGE:267850 5'
5787	18879	32081	0.71	1.0E-126	T66898.1	EST_HUMAN	ya52b12.s1 Soares fetal liver spleen 1NfLS Homo sapiens cDNA clone IMAGE:66527 3'
6360	19429	32872	3.23	1.0E-126	AA460075.1	EST_HUMAN	zo66e03.r1 Soares total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:796444 5' similar to TR:G1145880 G1145880 TITIN;
6422	19489	32739	3.5	1.0E-126	AB040958.1	NT	Homo sapiens mRNA for KIAA1525 protein, partial cds
6422	19489	32740	3.5	1.0E-126	AB040958.1	NT	Homo sapiens mRNA for KIAA1525 protein, partial cds
7742	20596	34061	0.98	1.0E-126	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
7742	20596	34062	0.98	1.0E-126	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
7969	20908	34299	0.64	1.0E-126	AU136463	EST_HUMAN	AU136463 PLACE1 Homo sapiens cDNA clone PLACE1004325 5'
8031	20968	34362	0.66	1.0E-126	AJ806483.1	EST_HUMAN	w0801.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2350009 3' similar to SW:MPP2_HUMAN Q14168 MAGUK P55 SUBFAMILY MEMBER 2;
8210	21179	34587	0.92	1.0E-126	AB037715.1	NT	Homo sapiens mRNA for KIAA1294 protein, partial cds
8210	21179	34588	0.92	1.0E-126	AB037715.1	NT	Homo sapiens mRNA for KIAA1294 protein, partial cds
8320	21289	34703	4.9	1.0E-126	X16609.1	NT	Human mRNA for ankrytin (variant 2.1)

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Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8524	21492	34907	1.02	1.0E-126	AA483388.1	EST_HUMAN	ne74b12.s1 NCI CGAP Ew1 Homo sapiens cDNA clone IMAGE:909983 similar to SW:TSG6_HUMAN
10155	23080	36556	0.44	1.0E-126	4505424	NT	P98066 TUMOR NECROSIS FACTOR-INDUCIBLE PROTEIN TSG-6 PRECURSOR ;
11208	24162	37692	4.45	1.0E-126	BF683175.1	EST_HUMAN	Homo sapiens neuro-oncological ventral antigen 1 (NOVA1), splice variant 1, mRNA
11846	24729	38315	2.96	1.0E-126	BE261680.1	EST_HUMAN	602139138F1 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:4298240 5'
12766	18362	31297	7.78	1.0E-126	BE743922.1	EST_HUMAN	601149404F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3502129 5'
173	13275	26201	1.37	1.0E-127	AB024597.1	NT	601577981F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3926685 5'
173	13275	26202	1.37	1.0E-127	AB024597.1	NT	Homo sapiens mRNA for casein kinase I epsilon, complete cds
174	13275	26201	1.7	1.0E-127	AB024597.1	NT	Homo sapiens mRNA for casein kinase I epsilon, complete cds
174	13275	26202	1.7	1.0E-127	AB024597.1	NT	Homo sapiens mRNA for casein kinase I epsilon, complete cds
273	13369	26286	0.9	1.0E-127	AB024597.1	NT	Homo sapiens mRNA for casein kinase I epsilon, complete cds
273	13369	26297	0.9	1.0E-127	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
882	13937	26896	0.98	1.0E-127	AF114488.1	NT	Homo sapiens intersectin short isoform (ITSN) mRNA, complete cds
917	13971	26925	2.54	1.0E-127	U72621.2	NT	Homo sapiens lost on transformation LOT1 mRNA, complete cds
1700	14730	27712	1.18	1.0E-127	4827053	NT	Homo sapiens ubiquitin specific protease 8 (USP8) mRNA
2080	15097	28113	4.83	1.0E-127	5803065	NT	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 1 (LILRA1), mRNA
2080	15097	28114	4.83	1.0E-127	5803065	NT	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 1 (LILRA1), mRNA
2210	15225	28246	10.89	1.0E-127	4506620	NT	Homo sapiens ribosomal protein L26 (RPL26) mRNA
2349	15358	28380	3.28	1.0E-127	AF245505.1	NT	Homo sapiens adican mRNA, complete cds
2617	15615	28640	2.23	1.0E-127	X12981.1	NT	Human mRNA for cytokeratin 18
2628	15827	28651	1.15	1.0E-127	AA450131.1	EST_HUMAN	z42a02.1 Scarses_tetal_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:789098 5'
2628	15827	28652	1.15	1.0E-127	AA450131.1	EST_HUMAN	z42a02.1 Scarses_tetal_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:789098 5'
3702	16745	29658	0.98	1.0E-127	AF114488.1	NT	Homo sapiens intersectin short isoform (ITSN) mRNA, complete cds
3824	16864	29798	0.81	1.0E-127	AW161297.1	EST_HUMAN	au80e06.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2782594 5' similar to TR:Q15170 Q15170 TRANSCRIPTION FACTOR S-II-RELATED PROTEIN, contains element MER22 repetitive element ;
4249	17278	30159	0.64	1.0E-127	AL163247.2	NT	Homo sapiens chromosome 21 segment HS21C047
4282	17311	30189	20.15	1.0E-127	7706239	NT	Homo sapiens neur oblactoma-amplified protein (LOC51594), mRNA
4282	17311	30190	20.15	1.0E-127	7706239	NT	Homo sapiens neur oblactoma-amplified protein (LOC51594), mRNA
4523	17548	30436	1.42	1.0E-127	AF262297.1	NT	Homo sapiens cytochrome P450 retnoid metabolizing protein P450RA1-2 mRNA, complete cds
4633	17654	30541	5.27	1.0E-127	4506384	NT	Homo sapiens RAD1 (S. pombe) homolog (RAD1) mRNA, and translated products

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4663	17684		2.42	1.0E-127	AL163268.2	NT	Homo sapiens chromosome 21 segment HS21C068
4700	17721	30614	1.32	1.0E-127	6912639	NT	Homo sapiens Ring1 and YY1 binding protein (RYBP), mRNA
5791	18983	32085	1.46	1.0E-127	W03547.1	EST_HUMAN	zao1a10.1 Soares melanocyte 2Nbl-HM Homo sapiens cDNA clone IMAGE:291258 5' similar to SW:PIP6_RAT P10688 1-PHOSPHATIDYLINOSITOL-4,5-BISPHOSPHATE PHOSPHODIESTERASE DELTA 1
5826	18916	32100	2.07	1.0E-127	4826863	NT	Homo sapiens neuronal cell adhesion molecule (NRCAM), mRNA
5900	18987	32178	4.51	1.0E-127	X85764.1	NT	H.sapiens NOS2 gene, exon 6
6286	19358	32594	1.95	1.0E-127	X84060.1	NT	H.sapiens TCF11 gene, exon 3-6
6454	19619	32769	5.48	1.0E-127	4504778	NT	Homo sapiens integrin, beta 8 (ITGB8), mRNA
6815	19669	33158	0.91	1.0E-127	11421595	NT	Homo sapiens immunoglobulin superfamily, member 3 (IGSF3), mRNA
7264	19999	33298	1.05	1.0E-127	4826977	NT	Homo sapiens reelin (RELN), mRNA
8066	21003	34400	1.34	1.0E-127	11421914	NT	Homo sapiens Pandred syndrome (PDS), mRNA
8076	21013	34413	1.34	1.0E-127	11421914	NT	Homo sapiens Pandred syndrome (PDS), mRNA
8079	21016	34416	0.58	1.0E-127	BF871355.1	EST_HUMAN	602151232F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4292575 5'
9239	22205	35637	0.6	1.0E-127	AW996292.1	EST_HUMAN	QV3-BN0046-150300-121-H11 BN0046 Homo sapiens cDNA
9239	22205	35638	1.12	1.0E-127	11427235	NT	Homo sapiens Chediak-Higashi syndrome 1 (CHS1), mRNA
9998	22925	36390	1.12	1.0E-127	11427235	NT	Homo sapiens Chediak-Higashi syndrome 1 (CHS1), mRNA
9998	22925	36390	4.63	1.0E-127	AF274863.1	NT	Homo sapiens secretory pathway component Sec31B-1 mRNA, alternatively spliced, complete cds
9998	22925	36391	4.63	1.0E-127	AF274863.1	NT	Homo sapiens secretory pathway component Sec31B-1 mRNA, alternatively spliced, complete cds
10232	23157	36646	0.76	1.0E-127	AI298932.1	EST_HUMAN	qm94h09.x1 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1896449 3'
10708	23630	37125	1.86	1.0E-127	11427235	NT	Homo sapiens Chediak-Higashi syndrome 1 (CHS1), mRNA
11492	24435	37983	5.12	1.0E-127	11417339	NT	Homo sapiens similar to heat shock 70kD protein 95 (mortalin-2) (H. sapiens) (LOC63184), mRNA
11492	24435	37984	5.12	1.0E-127	11417339	NT	Homo sapiens similar to heat shock 70kD protein 95 (mortalin-2) (H. sapiens) (LOC63184), mRNA
11949	24928	38423	2.78	1.0E-127	BE995415.1	EST_HUMAN	601434784F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3919917 5'
11949	24928	38424	2.78	1.0E-127	BE995415.1	EST_HUMAN	601434784F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3919917 5'
12089	21003	34400	2.11	1.0E-127	11421914	NT	Homo sapiens Pandred syndrome (PDS), mRNA
12089	21003	34401	2.11	1.0E-127	11421914	NT	Homo sapiens Pandred syndrome (PDS), mRNA
12532	13275	26201	1.39	1.0E-127	AB024597.1	NT	Homo sapiens mRNA for casein kinase I epsilon, complete cds
12532	13275	26202	1.39	1.0E-127	AB024597.1	NT	Homo sapiens mRNA for casein kinase I epsilon, complete cds
12721	25375	31775	2.4	1.0E-127	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
13062	25856		1.47	1.0E-127	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
460	13533	26460	3.35	1.0E-128	BE385617.1	EST_HUMAN	601278127F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3618822 5'

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1158	14200	27150	2.18	1.0E-128	4758081	NT	Homo sapiens chondroitin sulfate proteoglycan 2 (versican) (CSPG2) mRNA
1158	14200	27151	2.18	1.0E-128	4758081	NT	Homo sapiens chondroitin sulfate proteoglycan 2 (versican) (CSPG2) mRNA
2084	15101	28117	9.34	1.0E-128	U02523.1	NT	Human FAU1P pseudogene, trinucleotide repeat regions
2084	15101	28118	9.34	1.0E-128	U02523.1	NT	Human FAU1P pseudogene, trinucleotide repeat regions
2219	15233	28257	31.4	1.0E-128	4508718	NT	Homo sapiens ribosomal protein S2 (RPS2) mRNA
2451	15456		1.49	1.0E-128	11437455	NT	Homo sapiens chromatin-specific transcription elongation factor, 140 kDa subunit (FACTP140), mRNA
3405	16454	29377	1.23	1.0E-128	AB033073.1	NT	Homo sapiens mRNA for KIAA1247 protein, partial cds
4893	17714	30609	5.95	1.0E-128	11426673	NT	Homo sapiens prospero-related homeobox 1 (PROX1), mRNA
5624	18720	31879	0.64	1.0E-128	X69539.1	NT	H. sapiens gene for inter-alpha-trypsin inhibitor heavy chain H1, exon 12
6558	19618	32883	1.94	1.0E-128	11420965	NT	Homo sapiens phosphodiesterase 1C, calmodulin-dependent (70kD) (PDE1C), mRNA
7116	20050	33353	6.42	1.0E-128	BF224345.1	EST_HUMAN	Tg86b10.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3905794 5'
7661	20621	33986	0.69	1.0E-128	BE614105.1	EST_HUMAN	601503846F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3905794 5'
7983	20922	34313	0.53	1.0E-128	BF529931.1	EST_HUMAN	602042322F1 NCI_CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4179988 5'
7983	20922	34314	0.53	1.0E-128	BF529931.1	EST_HUMAN	602042322F1 NCI_CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4179988 5'
7983	20922	34315	0.63	1.0E-128	BF529931.1	EST_HUMAN	602042322F1 NCI_CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4179988 5'
8080	21017	34417	0.62	1.0E-128	11545923	NT	Homo sapiens putative ABC transporter (WHITE2), mRNA
8139	21076	34476	0.49	1.0E-128	AB046856.1	NT	Homo sapiens mRNA for KIAA1636 protein, partial cds
8139	21076	34477	0.49	1.0E-128	AB046856.1	NT	Homo sapiens mRNA for KIAA1636 protein, partial cds
8893	21859	35281	0.5	1.0E-128	AB007923.1	NT	Homo sapiens mRNA for KIAA0454 protein, partial cds
8893	21859	35282	0.5	1.0E-128	AB007923.1	NT	Homo sapiens mRNA for KIAA0454 protein, partial cds
10496	23418	36917	1.73	1.0E-128	AA639193.1	EST_HUMAN	hs04a11.1 NCI_CGAP_Ew1 Homo sapiens cDNA clone IMAGE:1182620 similar to TR:G951338 G951338 CHROMOSOME SEGREGATION GENE HOMOLOG CAS.:
11065	24028	37552	3.42	1.0E-128	11425254	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2D (GRIN2D), mRNA
11073	24035	37559	3.94	1.0E-128	AA926959.1	EST_HUMAN	gm68h08.s1 NCI_CGAP_GC4 Homo sapiens cDNA clone IMAGE:1552383 3' similar to gb:X54941 CYCLIN-
11149	24109	37635	1.48	1.0E-128	AJ252060.1	NT	DEPENDENT KINASES REGULATORY SUBUNIT 1 (HUMAN);
11202	24156	37687	2.69	1.0E-128	BE364475.1	EST_HUMAN	Homo sapiens mRNA for TRABID protein (TRABID gene)
12400	25174		8.88	1.0E-128	AW955290.1	EST_HUMAN	601277826F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3618750 5'
122	13486	26423	0.89	1.0E-129	S37722.1	NT	EST:367360 MAGE resequences, MAGC Homo sapiens cDNA
413	13486	26423	1	1.0E-129	S37722.1	NT	insulin-like growth factor binding protein-2 [human, placenta, Genomic, 1019 nt, segment 2 of 4]
1731	14761	27745	3.06	1.0E-129	AL096880.1	NT	insulin-like growth factor binding protein-2 [human, placenta, Genomic, 1019 nt, segment 2 of 4]
1736	14766	27750	2.5	1.0E-129	AF240786.1	NT	Novel human mRNA containing Zinc finger C2H2 type domains
							Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1736	14766	27751	2.5	1.0E-129	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
1863	14888	27885	2.86	1.0E-129	11418522	NT	Homo sapiens zinc finger protein 76 (expressed in testis) (ZNF76), mRNA
3145	16202	29113	1.33	1.0E-129	Q14585	SWISSPROT	ZINC FINGER PROTEIN HZF10
3145	16202	29114	1.33	1.0E-129	Q14585	SWISSPROT	ZINC FINGER PROTEIN HZF10
3145	16202	29115	1.33	1.0E-129	Q14585	SWISSPROT	ZINC FINGER PROTEIN HZF10
4192	17223	30112	1.87	1.0E-129	AB040892.1	NT	Homo sapiens mRNA for KIAA1459 protein, partial cds
4309	17338	30216	1.86	1.0E-129	AW755254.1	EST_HUMAN	CMYA5 Human cardiac muscle expression library Homo sapiens cDNA clone 4151935 similar to CMYA5 Cardiomypathy associated gene 5
4309	17338	30217	1.86	1.0E-129	AW755254.1	EST_HUMAN	CMYA5 Human cardiac muscle expression library Homo sapiens cDNA clone 4151935 similar to CMYA5 Cardiomypathy associated gene 5
6210	19284	32516	4.28	1.0E-129	AJ006345.1	NT	Homo sapiens KVLQT1 gene
6874	19731	33007	0.54	1.0E-129	BE88834.1	EST_HUMAN	601513661F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3915350 5'
7334	20305	33649	4.07	1.0E-129	AJ006345.1	NT	Homo sapiens KVLQT1 gene
7398	20364	33716	6.8	1.0E-129	11420850	NT	Homo sapiens similar to ribosomal protein S26 (H. sapiens) (LOC63694), mRNA
7771	20724	34095	0.78	1.0E-129	AF041056.1	NT	Homo sapiens WSCR4 gene, exons 3 and 4
7771	20724	34096	0.78	1.0E-129	AF041056.1	NT	Homo sapiens WSCR4 gene, exons 3 and 4
8661	21629	36850	4.37	1.0E-129	AB014534.1	NT	Homo sapiens mRNA for KIAA0634 protein, partial cds
10439	23361	36850	0.79	1.0E-129	11437282	NT	Homo sapiens solute carrier family 21 (organic anion transporter), member 9 (SLC21A9), mRNA
10439	23361	36851	0.79	1.0E-129	11437282	NT	Homo sapiens solute carrier family 21 (organic anion transporter), member 9 (SLC21A9), mRNA
10878	23788	37299	0.48	1.0E-129	AI199117.1	EST_HUMAN	q140d08.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:1858959 3' similar to TR:Q14840 Q14840 MITOGEN INDUCIBLE GENE MIG-2
10878	23788	37300	0.48	1.0E-129	AI199117.1	EST_HUMAN	q140d08.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:1858959 3' similar to TR:Q14840 Q14840 MITOGEN INDUCIBLE GENE MIG-2
11557	24497	38093	2.69	1.0E-129	AA625526.1	EST_HUMAN	af7207.r1 Soares_NHIMPu_ST Homo sapiens cDNA clone IMAGE:1047589 5'
11630	20364	33716	6.2	1.0E-129	11420850	NT	Homo sapiens similar to ribosomal protein S26 (H. sapiens) (LOC63694), mRNA
12386	25164		4.21	1.0E-129	H83155.1	EST_HUMAN	y49c06.r1 Soares fetal liver spleen 1NFS Homo sapiens cDNA clone IMAGE:199112 5' similar to SP:B48150 B48150 HP-25-HIBERNATION-RELATED PROTEIN - TAMIAS ASIATICUS-ASIAN ;
12758	25401		2.63	1.0E-129	AL120739.1	EST_HUMAN	DKFZp62K171_r1 762 (synonym: lme12) Homo sapiens cDNA clone DKFZp62K171 5'
77	13194	26117	0.65	1.0E-130	7706530	NT	Homo sapiens hypothetical protein (HSPC242), mRNA
1174	14215	27170	5.95	1.0E-130	AB037835.1	NT	Homo sapiens mRNA for KIAA1414 protein, partial cds
1675	14707	27685	13.33	1.0E-130	BE275192.1	EST_HUMAN	601121995F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3348366 5'
1675	14707	27686	13.33	1.0E-130	BE275192.1	EST_HUMAN	601121995F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3348366 5'
2000	15021		3.15	1.0E-130	X04092.1	NT	Human gene for catalase (EC 1.11.1.6) exon 9 mapping to chromosome 11, band p13

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2781	15773		8.37	1.0E-130	AJ010230.1	NT	Homo sapiens RET finger protein-like 1 antisense transcript, partial
2800	15949	28864	1.3	1.0E-130	BE564219.1	EST_HUMAN	601343016F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3685466 5'
2890	15949	28865	1.3	1.0E-130	BE564219.1	EST_HUMAN	601343016F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3685466 5'
3591	16836	29556	1.27	1.0E-130	AF240688.1	NT	Homo sapiens retinol dehydrogenase homolog isoform-1 (RDH) mRNA, complete cds
3779	15949	28864	4.55	1.0E-130	BE564219.1	EST_HUMAN	601343016F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3685466 5'
3779	15949	28865	4.55	1.0E-130	BE564219.1	EST_HUMAN	601343016F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3685466 5'
3957	16997	29912	1.41	1.0E-130	AW503580.1	EST_HUMAN	U1HF-BN0-aky-g-06-0-UL1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078731 5'
4099	17133	30027	1	1.0E-130	M97710.1	NT	Human T-cell receptor (V alpha 22.1, J alpha 22.1, J alpha 22.1) mRNA
4569	17592	30486	8.22	1.0E-130	AW843993.1	EST_HUMAN	CM4-CN0045-180200-511-402 CN0045 Homo sapiens cDNA
5133	18142	31021	1.53	1.0E-130	AW363298.1	EST_HUMAN	RC0-CT0318-201199-031-a11 CT0318 Homo sapiens cDNA
5133	18142	31022	1.53	1.0E-130	AW363299.1	EST_HUMAN	RC0-CT0318-201199-031-a11 CT0318 Homo sapiens cDNA
6891	19943	33239	0.63	1.0E-130	X57825.1	NT	Human gamma immunoglobulin lambda light chain pseudogene (Vil.1)
6994	20120	33433	0.89	1.0E-130	AW843875.1	EST_HUMAN	CM0-CN0045-170200-225-g03 CN0045 Homo sapiens cDNA
6994	20120	33434	0.89	1.0E-130	AW843875.1	EST_HUMAN	CM0-CN0045-170200-225-g03 CN0045 Homo sapiens cDNA
7010	20136	33452	0.88	1.0E-130	11425446	NT	Homo sapiens estrogen-responsive B box protein (EBBP), mRNA
7466	20432	33788	2.06	1.0E-130	11416777	NT	Homo sapiens solute carrier family 6 (neurotransmitter transporter, L-proline), member 7 (SLC6A7), mRNA
7574	20536	33894	0.55	1.0E-130	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
7574	20536	33895	0.55	1.0E-130	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
8030	21986		0.9	1.0E-130	AF008551.1	NT	Homo sapiens aurora-related kinase 1 (ARK1) mRNA, complete cds
9171	22137	35563	2.91	1.0E-130	AW956242.1	EST_HUMAN	EST368312 IMAGE resequences, MAGD Homo sapiens cDNA
9569	22531	35981	1.74	1.0E-130	AB037756.1	NT	Homo sapiens mRNA for KIAA1335 protein, partial cds
10293	23218		1.28	1.0E-130	AW103454.1	EST_HUMAN	xd36c06.x1 NCL CGAP_Ov23 Homo sapiens cDNA clone IMAGE:2595874 3'
12015	24892	38489	1.71	1.0E-130	4504142	NT	Homo sapiens glutamate receptor, metabotropic 5 (GRM5) mRNA
13046	15773		1.44	1.0E-130	AJ010230.1	NT	Homo sapiens RET finger protein-like 1 antisense transcript, partial
4	13125	26023	2.64	0.0E+00	AA228128.1	EST_HUMAN	zf58c04.r1 Soares NIHMPu_S1 Homo sapiens cDNA clone IMAGE:667590 5' similar to TR:Q222811
4	13125	26024	2.64	0.0E+00	AA228126.1	EST_HUMAN	G222811 ALPHA 1 CHAIN OF TYPE XII COLLAGEN. ;
8	13128	26026	2.59	0.0E+00	4885136	NT	zf58c04.r1 Soares NIHMPu_S1 Homo sapiens cDNA clone IMAGE:667590 5' similar to TR:Q222811
16	13136	26034	0.66	0.0E+00	8923349	NT	Homo sapiens checkpoint suppressor 1 (CHES1), mRNA
16	13136	26035	0.68	0.0E+00	8923349	NT	Homo sapiens hypothetical protein FLJ20371 (FLJ20371), mRNA
23	13143	26042	1.8	0.0E+00	D83327.1	NT	Homo sapiens DCRR1 mRNA, partial cds
23	13143	26043	1.8	0.0E+00	D83327.1	NT	Homo sapiens DCRR1 mRNA, partial cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
29	13149	26048	51.1	0.0E+00	AF141349.1	NT	Homo sapiens beta-tubulin mRNA, complete cds
38	13158	26060	0.87	0.0E+00	M58600.1	NT	Human heparin cofactor II (HCF2) gene, exons 1 through 5
42	13162	26065	4.86	0.0E+00	6857825	NT	Homo sapiens RNA-binding protein S1, serine-rich domain (RNPS1), mRNA
59	13178	26060	2.13	0.0E+00	Y17151.2	NT	Homo sapiens mRNA for multidrug resistance protein 3 (ABCC3)
59	13178	26091	2.13	0.0E+00	Y17151.2	NT	Homo sapiens mRNA for multidrug resistance protein 3 (ABCC3)
61	13180	26095	1.27	0.0E+00	D78804.1	EST_HUMAN	HUM516H088 Human placenta polyA+ (TFujwara) Homo sapiens cDNA clone GEN-516H08 5'
61	13180	26098	1.27	0.0E+00	D78804.1	EST_HUMAN	HUM516H088 Human placenta polyA+ (TFujwara) Homo sapiens cDNA clone GEN-516H08 5'
82	13181	26097	25.34	0.0E+00	L16558.1	NT	Human ribosomal protein L7 (RPL7) mRNA, complete cds
84	13183	26100	11.49	0.0E+00	AW069534.1	EST_HUMAN	cr48e07.x1 Jila bone marrow stroma Homo sapiens cDNA clone HBMSC cr48e07 3'
84	13183	26101	11.49	0.0E+00	AW069534.1	EST_HUMAN	cr48e07.x1 Jila bone marrow stroma Homo sapiens cDNA clone HBMSC cr48e07 3'
68	13186		1.16	0.0E+00	M60676.1	NT	Human von Willebrand factor pseudogene corresponding to exons 23 through 34
76	13193	26115	4.06	0.0E+00	4758977	NT	Homo sapiens protein tyrosine phosphatase, non-receptor type substrate 1 (PTPNS1) mRNA
76	13193	26116	4.06	0.0E+00	4758977	NT	Homo sapiens protein tyrosine phosphatase, non-receptor type substrate 1 (PTPNS1) mRNA
79	13193	26115	2.97	0.0E+00	4758977	NT	Homo sapiens protein tyrosine phosphatase, non-receptor type substrate 1 (PTPNS1) mRNA
79	13193	26116	2.97	0.0E+00	4758977	NT	Homo sapiens protein tyrosine phosphatase, non-receptor type substrate 1 (PTPNS1) mRNA
82	13198	26122	0.79	0.0E+00	4501850	NT	Homo sapiens amiloride binding protein 1 (amine oxidase (copper-containing)) (ABP1), nuclear gene encoding mitochondrial protein, mRNA
83	13199		16.85	0.0E+00	4504444	NT	Homo sapiens heterogeneous nuclear ribonucleoprotein A1 (HNRPA1) mRNA
91	13207	26131	80.76	0.0E+00	5016098	NT	Homo sapiens actin, beta (ACTB) mRNA
94	13210	26134	18.95	0.0E+00	U89277.1	NT	Human polyomavirus 1 homolog (HPV1) mRNA, partial cds
101	13217	26141	2.55	0.0E+00	AI114743.1	EST_HUMAN	HA1347 Human fetal liver cDNA library Homo sapiens cDNA
102	13218	26142	1.19	0.0E+00	AB037784.1	NT	Homo sapiens mRNA for KIAA1363 protein, partial cds
116	13227	26151	0.63	0.0E+00	AI623701.1	EST_HUMAN	ts38b05.x1 NCL CGAP_U4 Homo sapiens cDNA clone IMAGE:2230833 3' similar to TR:Q89551 Q89551 MITOCHONDRIAL TRANSCRIPTION TERMINATION FACTOR PRECURSOR.
117	13227	26151	0.78	0.0E+00	AI623701.1	EST_HUMAN	ts38b05.x1 NCL CGAP_U4 Homo sapiens cDNA clone IMAGE:2230833 3' similar to TR:Q89551 Q89551 MITOCHONDRIAL TRANSCRIPTION TERMINATION FACTOR PRECURSOR.
118	13209	26152	0.64	0.0E+00	N36040.1	EST_HUMAN	W01h09.r1 Soares melanocyte 2NbHM Homo sapiens cDNA clone IMAGE:270017 5'
118	13209	26153	0.64	0.0E+00	N36040.1	EST_HUMAN	W01h09.r1 Soares melanocyte 2NbHM Homo sapiens cDNA clone IMAGE:270017 5'
121	13230	26158	0.65	0.0E+00	4505458	NT	Homo sapiens neuropilin 2 (NRP2) mRNA
131	13236	26168	5.49	0.0E+00	4505938	NT	Homo sapiens polymerase (RNA) II (DNA directed) polypeptide A (220KD) (POLR2A) mRNA
131	13236	26167	5.49	0.0E+00	4505938	NT	Homo sapiens polymerase (RNA) II (DNA directed) polypeptide A (220KD) (POLR2A) mRNA
139	13474	26407	0.65	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FCGAMMA)BP mRNA
141	13244	26174	0.85	0.0E+00	T56945.1	EST_HUMAN	ye83g04.r2 Stratagene fetal spleen (#837205) Homo sapiens cDNA clone IMAGE:68310 5'
141	13244	26175	0.85	0.0E+00	T56945.1	EST_HUMAN	ye83g04.r2 Stratagene fetal spleen (#837205) Homo sapiens cDNA clone IMAGE:68310 5'

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
154	13257		54.2	0.0E+00	4504444	NT	Homo sapiens heterogeneous nuclear ribonucleoprotein A1 (HNRPA1) mRNA
158	13261	26188	4.4	0.0E+00	BF036981.1	EST_HUMAN	601460375F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3863803 5'
160	13263		39.14	0.0E+00	4504444	NT	Homo sapiens heterogeneous nuclear ribonucleoprotein A1 (HNRPA1) mRNA
163	13266	26191	0.92	0.0E+00	AF111168.2	NT	Homo sapiens serine palmitoyl transferase, subunit II gene, complete cds; and unknown genes
165	13268	26192	0.74	0.0E+00	BE295973.1	EST_HUMAN	601174270F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3528884 5'
166	13268	26192	1.17	0.0E+00	BE295973.1	EST_HUMAN	601174270F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3528884 5'
167	13269	26193	2.37	0.0E+00	W73973.1	EST_HUMAN	zb32605.t1 Soares_Tetal heart_NbHH19W Homo sapiens cDNA clone IMAGE:346201 5' similar to gb:X16282_cds1 ZINC FINGER PROTEIN CLONE 647 (HUMAN);
168	13270	26194	0.85	0.0E+00	BE162832.1	EST_HUMAN	QV3-HT0457-140200-088-d04 HT0457 Homo sapiens cDNA
168	13270	26195	0.85	0.0E+00	BE162832.1	EST_HUMAN	QV3-HT0457-140200-088-d04 HT0457 Homo sapiens cDNA
169	13271	26196	1.59	0.0E+00	AF244088.1	NT	Homo sapiens zinc finger protein mRNA, complete cds
172	13274	26199	14.16	0.0E+00	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
172	13274	26200	14.16	0.0E+00	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
182	13282	26207	4.87	0.0E+00	BE018970.1	EST_HUMAN	bb24e12.y1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:2863854 5' similar to WP:Y57A10A.Z
182	13282	26208	4.87	0.0E+00	BE018970.1	EST_HUMAN	bb24e12.y1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:2863854 5' similar to WP:Y57A10A.Z
187	13287	26211	4.35	0.0E+00	AB018327.1	NT	Homo sapiens mRNA for KIAA0784 protein, partial cds
187	13287	26212	4.35	0.0E+00	AB018327.1	NT	Homo sapiens mRNA for KIAA0784 protein, partial cds
188	13288	26213	3.08	0.0E+00	AB018327.1	NT	Homo sapiens mRNA for KIAA0784 protein, partial cds
188	13288	26214	3.06	0.0E+00	AB018327.1	NT	Homo sapiens mRNA for KIAA0784 protein, partial cds
186	13287	26225	296.4	0.0E+00	D50659.1	NT	Human gamma-cytoplasmic actin (ACTGPF) pseudogene
200	13301	26229	4.35	0.0E+00	AF273045.1	NT	Homo sapiens CTCL tumor antigen se14-3 mRNA, complete cds
200	13301	26230	4.35	0.0E+00	AF273045.1	NT	Homo sapiens CTCL tumor antigen se14-3 mRNA, complete cds
202	13303	26232	3.93	0.0E+00	AF167174.1	NT	Homo sapiens chromosome X MSL3-2 protein mRNA, complete cds
202	13303	26233	3.93	0.0E+00	AF167174.1	NT	Homo sapiens chromosome X MSL3-2 protein mRNA, complete cds
211	15835	26239	51.32	0.0E+00	AI587308.1	EST_HUMAN	iq04f08.x1 NCI_CGAP_U03 Homo sapiens cDNA clone IMAGE:2207847 3' similar to gb:J03191 PROFILIN 1 (HUMAN);
211	15835	26240	51.32	0.0E+00	AI587308.1	EST_HUMAN	iq04f08.x1 NCI_CGAP_U03 Homo sapiens cDNA clone IMAGE:2207847 3' similar to gb:J03191 PROFILIN 1 (HUMAN);
213	13313	26242	1.57	0.0E+00	AF195658.1	NT	Homo sapiens DNA mismatch repair protein (MLH3) gene, complete cds
216	13316		43.74	0.0E+00	4506632	NT	Homo sapiens ribosomal protein L31 (RPL31) mRNA
217	13317		6.46	0.0E+00	AF132000.1	NT	Homo sapiens TADA1 protein mRNA, complete cds
223	13323	26248	1.5	0.0E+00	AB018264.1	NT	Homo sapiens mRNA for KIAA0721 protein, partial cds

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224	13323	26248	1.81	0.0E+00	AB018284.1	NT	Homo sapiens mRNA for KIAA0721 protein, partial cds
225	13324	26249	3.11	0.0E+00	6678444	NT	Mus musculus testis-specific protein, Y-encoded-like (Tspyl), mRNA
239	13338	26264	3.14	0.0E+00	5453806	NT	Homo sapiens NS1-associated protein 1 (NSAP1), mRNA
240	13339		6.19	0.0E+00	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
247	13344	26269	3.48	0.0E+00	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
249	13346	26272	2.06	0.0E+00	X89772.1	NT	H. sapiens mRNA for interferon alpha/beta receptor (long form)
257	13354		9.67	0.0E+00	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
269	13365	26290	1.2	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1), mRNA
269	13365	26291	1.2	0.0E+00	4507600	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1), mRNA
271	13367	26293	3.56	0.0E+00	7706028	NT	Homo sapiens hypothetical protein (LOC51250), mRNA
282	13377		1.55	0.0E+00	D83327.1	NT	Homo sapiens DORR1 mRNA, partial cds
283	13378	26306	1.75	0.0E+00	D83327.1	NT	Homo sapiens DORR1 mRNA, partial cds
283	13378	26307	1.75	0.0E+00	D83327.1	NT	Homo sapiens DORR1 mRNA, partial cds
284	13379		0.98	0.0E+00	AW845293.1	EST_HUMAN	IL2-CT0031-1B1199-020-803 CT0031 Homo sapiens cDNA
293	13387	26314	7.75	0.0E+00	4557029	NT	Homo sapiens potassium inwardly-rectifying channel, subfamily J, member 15 (KCNJ15), mRNA
293	13387	26315	7.75	0.0E+00	4557029	NT	Homo sapiens potassium inwardly-rectifying channel, subfamily J, member 15 (KCNJ15), mRNA
304	13398	26325	3.68	0.0E+00	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
305	13399	26326	15.06	0.0E+00	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
306	15838		12.15	0.0E+00	4508728	NT	Homo sapiens ribosomal protein S5 (RPS5), mRNA
307	13400	26327	0.8	0.0E+00	4503914	NT	Homo sapiens phosphoribosylglycinamide formyltransferase, phosphoribosylaminimidazole synthetase (GART), mRNA
308	13401		1.85	0.0E+00	AA480002.1	EST_HUMAN	zvl806.r1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:753994 5'
309	13402	26328	23.16	0.0E+00	4507152	NT	Homo sapiens SON DNA binding protein (SON), mRNA
310	13402	26328	22.55	0.0E+00	4507152	NT	Homo sapiens SON DNA binding protein (SON), mRNA
314	13406	26332	1.76	0.0E+00	AF114498.1	NT	Homo sapiens intercalin short isoform (ITSN), complete cds
327	13418	26341	2.84	0.0E+00	O14867	SWISSPROT	TRANSCRIPTION REGULATOR PROTEIN BACH1 (BTB AND CNC HOMOLOG 1) (HA2303)
327	13418	26342	2.84	0.0E+00	O14867	SWISSPROT	TRANSCRIPTION REGULATOR PROTEIN BACH1 (BTB AND CNC HOMOLOG 1) (HA2303)
328	13419	26343	4.94	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
329	13419	26343	1.14	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
344	13433	26355	0.86	0.0E+00	5174574	NT	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (t(11q24) translocated to, 4 (MLLT4), mRNA
345	13434	26356	2.48	0.0E+00	4505256	NT	Homo sapiens moesin (MSN), mRNA
348	13437	26360	3.07	0.0E+00	4827057	NT	Homo sapiens X-box binding protein 1 (XBP1), mRNA
351	13440	26365	1.24	0.0E+00	U71600.1	NT	Human zinc finger protein zfp31 (zfp31), mRNA, partial cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
356	13444	26369	2.54	0.0E+00	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
356	13444	26370	2.54	0.0E+00	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
357	15838	26371	2.87	0.0E+00	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
359	13446	26373	0.87	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
361	13448	26376	0.9	0.0E+00	4503854	NT	Homo sapiens GA-binding protein transcription factor, alpha subunit (GABPA), mRNA
362	13449	26377	1.91	0.0E+00	D80006.1	NT	Human mRNA for KIAA0184 gene, partial cds
363	13449	26377	1.41	0.0E+00	D80006.1	NT	Human mRNA for KIAA0184 gene, partial cds
365	13451	26379	0.63	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
376	13480	26390	2.41	0.0E+00	AU134963.1	EST_HUMAN	AU134963 PLACE1 Homo sapiens cDNA clone PLACE1000899 5'
387	13500	26433	7.69	0.0E+00	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
388	13501	26434	2.78	0.0E+00	AI363014.1	EST_HUMAN	qy81h05.x1 NCI CGAP Brn25 Homo sapiens cDNA clone IMAGE:2018457 3' similar to gb:X54199 PHOSPHORIBOSYLAMINE-GLYCINE LIGASE (HUMAN);
392	13487	26397	2.89	0.0E+00	AW754180.1	EST_HUMAN	RC2-CT0320-300100-016-a09 CT0320 Homo sapiens cDNA
395	13499	26400	1.3	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
396	13470	26401	2.24	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
396	13470	26402	2.24	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
397	13471	26403	1.22	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
398	13472	26404	1.27	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
398	13472	26405	1.27	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
399	13473	26406	3.09	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
400	13474	26407	0.67	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
401	13475	26408	2.69	0.0E+00	X74870.1	NT	H. sapiens gene for RNA pol II largest subunit, exons 23-29
401	13475	26409	2.69	0.0E+00	X74870.1	NT	H. sapiens gene for RNA pol II largest subunit, exons 23-29
402	13475	26408	2.37	0.0E+00	X74870.1	NT	H. sapiens gene for RNA pol II largest subunit, exons 23-29
402	13475	26409	2.37	0.0E+00	X74870.1	NT	H. sapiens gene for RNA pol II largest subunit, exons 23-29
406	13479		25.89	0.0E+00	4506608	NT	Homo sapiens ribosomal protein L19 (RPL19) mRNA
420	13115	26013	1.44	0.0E+00	R17795.1	EST_HUMAN	yg09a02.1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:31662 5'
428	13502	26435	2.15	0.0E+00	4503914	NT	Homo sapiens phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthetase,
428	13503		15.71	0.0E+00	4506728	NT	phosphoribosylaminimidazole synthetase (GAR T) mRNA
430	13504	26436	1.89	0.0E+00	AB028942.1	NT	Homo sapiens ribosomal protein S5 (RPS5) mRNA
431	13505	26437	3.68	0.0E+00	4507152	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
431	13505	26437	3.68	0.0E+00	4507152	NT	Homo sapiens SON DNA binding protein (SON) mRNA
431	13506	26438	3.68	0.0E+00	4507152	NT	Homo sapiens SON DNA binding protein (SON) mRNA
432	13506	26439	4.53	0.0E+00	AF193807.1	NT	Mus musculus truncated SON protein (Son) mRNA, complete cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
444	13517		1.27	0.0E+00	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
446	13519	26452	6.45	0.0E+00	4557879	NT	Homo sapiens interferon gamma receptor 1 (IFNGR1) mRNA
451	13524		0.75	0.0E+00	AA324262.1	EST_HUMAN	EST27054 Carcibellum II Homo sapiens cDNA 5' end
452	13525		1.25	0.0E+00	BE254447.1	EST_HUMAN	601111520F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352348 5'
468	13541	26466	3.47	0.0E+00	4504532	NT	Homo sapiens 5-hydroxytryptamine (serotonin) receptor 1B (HTR1B) mRNA
468	13541	26467	3.47	0.0E+00	4504532	NT	Homo sapiens 5-hydroxytryptamine (serotonin) receptor 1B (HTR1B) mRNA
474	13546	26475	2.84	0.0E+00	4557887	NT	Homo sapiens keratin 18 (KRT18) mRNA
474	13546	26476	2.84	0.0E+00	4557887	NT	Homo sapiens keratin 18 (KRT18) mRNA
484	13557	26482	2.68	0.0E+00	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
485	13558	26483	6.81	0.0E+00	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
485	13558	26484	6.81	0.0E+00	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
494	13566	26489	3.92	0.0E+00	AB033035.1	NT	Homo sapiens mRNA for KIAA1209 protein, partial cds
496	13568	26491	1.83	0.0E+00	AU132898.1	EST_HUMAN	AU132898 NT2RP4 Homo sapiens cDNA clone NT2RP4000837 5'
504	13576	26497	1.58	0.0E+00	BE385144.1	EST_HUMAN	601274951F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3615756 5'
505	15842	26498	1.88	0.0E+00	AW938825.1	EST_HUMAN	PMO-DT0065-130400-002-c06 DT0065 Homo sapiens cDNA
508	13579	26500	1.47	0.0E+00	AL117233.1	NT	Novel human gene mapping to chromosome 1
509	13680	26501	0.9	0.0E+00	8923955	NT	Homo sapiens PC326 protein (PC326), mRNA
513	13584		0.82	0.0E+00	BF373403.1	EST_HUMAN	IL2-F10159-070800-120-F07 F10159 Homo sapiens cDNA
520	13591	26511	5.32	0.0E+00	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
527	15843	26515	1.15	0.0E+00	BE081527.1	EST_HUMAN	QV2-BT0635-160400-142-h05 BT0635 Homo sapiens cDNA
532	13603	26521	1.61	0.0E+00	BF028005.1	EST_HUMAN	601764858F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3896898 5'
538	13609	26528	2.23	0.0E+00	AB040909.1	NT	Homo sapiens mRNA for KIAA1476 protein, partial cds
541	13612	26531	10.94	0.0E+00	6006030	NT	Homo sapiens transcription elongation factor B (SII), polypeptide 1-like (TCEB1L) mRNA
542	13613	26532	4.46	0.0E+00	4504036	NT	Homo sapiens guanine nucleotide binding protein (G protein), alpha 11 (Gq class) (GNA11) mRNA
542	13613	26533	4.46	0.0E+00	4504036	NT	Homo sapiens guanine nucleotide binding protein (G protein), alpha 11 (Gq class) (GNA11) mRNA
544	13615	26535	0.99	0.0E+00	8923831	NT	Homo sapiens anillin (LOC544443), mRNA
545	13616	26536	1.2	0.0E+00	8923831	NT	Homo sapiens anillin (LOC544443), mRNA
545	13616	26537	1.2	0.0E+00	8923831	NT	Homo sapiens anillin (LOC544443), mRNA
550	13620		5.14	0.0E+00	AF003528.1	NT	Homo sapiens X-linked anhidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
558	13628	26546	1.55	0.0E+00	AW135324.1	EST_HUMAN	U1-H-B1-acb-h-04-0-U1.s1 NCL_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2713951 3'
568	13638		2.54	0.0E+00	D10083.1	NT	Homo sapiens RGH1 gene, retrovirus-like element
588	13656	26571	2.72	0.0E+00	5174742	NT	Homo sapiens ubiquinol-cytochrome c reductase, Rieske iron-sulfur polypeptide 1 (UQCRCFS1), nuclear gene encoding mitochondrial protein, mRNA

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Table 4
Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
601	13688		15.19	0.0E+00	J04086.1	NT	Human apolipoprotein A-I (ApoA-I) gene, exon 1
604	13671	26585	1.83	0.0E+00	BF104898.1	EST_HUMAN	601822627F1 NIH_MGC_75 Homo sapiens cDNA clone IMAGE:4048447 5'
606	13673	26587		0.0E+00	8923631	NT	Homo sapiens hypothetical protein FLJ20701 (FLJ20701), mRNA
608	13673	26588	0.77	0.0E+00	8923631	NT	Homo sapiens hypothetical protein FLJ20701 (FLJ20701), mRNA
611	13676	26591	0.69	0.0E+00	4501854	NT	Homo sapiens acetyl-Coenzyme A carboxylase beta (ACACB), mRNA
616	13681	26597	1.6	0.0E+00	AF221712.1	NT	Homo sapiens Smad- and Olf-interacting zinc finger protein mRNA, partial cds
616	13681	26598	1.6	0.0E+00	AF221712.1	NT	Homo sapiens Smad- and Olf-interacting zinc finger protein mRNA, partial cds
623	13688	26605	1.86	0.0E+00	AF149773.1	NT	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
625	13690	26608	1.53	0.0E+00	AB037807.1	NT	Homo sapiens mRNA for KIAA1386 protein, partial cds
627	13692	26609	0.85	0.0E+00	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
628	13693	26610	1.55	0.0E+00	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
628	13693	26611	1.55	0.0E+00	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
629	13694	26612	1.34	0.0E+00	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
629	13694	26613	1.34	0.0E+00	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
636	13702	26623	1.35	0.0E+00	AA399486.1	EST_HUMAN	z80c07.1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:728732 5'
640	13706	26627	4.61	0.0E+00	D11078.1	NT	Homo sapiens RGH2 gene, retrovirus-like element
644	13710	26630	1.86	0.0E+00	W78811.1	EST_HUMAN	zh51b04.1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:415567 5' similar to gb:A21187 ALPHA-2-MACROGLOBULIN PRECURSOR (HUMAN);
644	13710	26631	1.86	0.0E+00	W78811.1	EST_HUMAN	zh51b04.1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:415567 5' similar to gb:A21187 ALPHA-2-MACROGLOBULIN PRECURSOR (HUMAN);
647	13713		5.61	0.0E+00	4885826	NT	Homo sapiens novel SH2-containing protein 3 (NSP3) mRNA
654	13720	26643	2.78	0.0E+00	6006003	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2B (GRIN2B) mRNA
656	13722	26646	2.3	0.0E+00	5031624	NT	Homo sapiens CCAAT-box-binding transcription factor (CBF2) mRNA
659	13725	26650	3.11	0.0E+00	U05235.1	NT	Homo sapiens neutral amino acid transporter (ASCT1) gene, exon 8
663	13728	26653	0.99	0.0E+00	AF108389.1	NT	Homo sapiens sodium/calcium exchanger isoform NaCa3 (NCX1) mRNA, complete cds
663	13729	26654	0.99	0.0E+00	AF108389.1	NT	Homo sapiens sodium/calcium exchanger isoform NaCa3 (NCX1) mRNA, complete cds
669	13734	26659	4.94	0.0E+00	4826947	NT	Homo sapiens protein kinase, X-linked (PRKX) mRNA
669	13734	26660	4.94	0.0E+00	4826947	NT	Homo sapiens protein kinase, X-linked (PRKX) mRNA
675	15846		3.3	0.0E+00	X57147.1	NT	Homo sapiens endogenous retrovirus PHE.1 (ERV6)
683	13746	26673	9.58	0.0E+00	4504424	NT	Homo sapiens high-mobility group (nonhistone chromosomal) protein 1 (HMG1) mRNA
688	13751	26677	4.6	0.0E+00	AB029012.1	NT	Homo sapiens mRNA for KIAA1089 protein, partial cds
698	13760	26692	17.63	0.0E+00	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
710	13772	26706	15.52	0.0E+00	AA614537.1	EST_HUMAN	np49d01.s1 NCI_CGAP_Br.1.1 Homo sapiens cDNA clone IMAGE:1128633 3' similar to gb:X57352 INTERFERON-INDUCIBLE PROTEIN 1-8U (HUMAN);

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
714	13776	26710	4.91	0.0E+00	M60675.1	NT	Human von Willebrand factor gene, exons 23 through 34
714	13776	26711	4.91	0.0E+00	M60675.1	NT	Human von Willebrand factor gene, exons 23 through 34
724	13786	26720	2.21	0.0E+00	5032192	NT	Homo sapiens TNF receptor-associated factor 1 (TRAF1) mRNA
730	13791	26726	4.69	0.0E+00	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
730	13791	26727	4.69	0.0E+00	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
732	13793	26730	11.38	0.0E+00	11548800	NT	Homo sapiens hypothetical protein FLJ21634 (FLJ21634), mRNA
738	13799	26738	2.31	0.0E+00	BE241577.1	EST_HUMAN	TCAAP1D0779 Pediatric acute myelogenous leukemia cell (FAB M1) Baylar-HGSC project=TCAA Homo sapiens cDNA clone TCAAP0779
757	13817	26761	2.09	0.0E+00	AF226990.2	NT	Homo sapiens MHC class I antigen (HLA-G) mRNA, HLA-G1 allele, complete cds
757	13817	26762	2.09	0.0E+00	AF226990.2	NT	Homo sapiens MHC class I antigen (HLA-G) mRNA, HLA-G1 allele, complete cds
759	13819	26764	0.88	0.0E+00	J03764.1	NT	Human, plasminogen activator inhibitor-1 gene, exons 2 to 9
759	13819	26765	0.88	0.0E+00	J03764.1	NT	Human, plasminogen activator inhibitor-1 gene, exons 2 to 9
762	13822	26766	2.01	0.0E+00	AB037760.1	NT	Homo sapiens mRNA for KIAA1339 protein, partial cds
763	13823	26767	0.86	0.0E+00	6912749	NT	Homo sapiens zinc finger protein 212 (ZNF212), mRNA
765	13850	26769	3.03	0.0E+00	D30612.1	NT	Homo sapiens mRNA for repressor protein, partial cds
766	13825	26770	1.78	0.0E+00	BE869735.1	EST_HUMAN	601445647F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:3849803 5'
770	13829	26774	3.68	0.0E+00	R48915.1	EST_HUMAN	Y68908.1 Soares breast 2NbhBst Homo sapiens cDNA clone IMAGE:154048 5'
771	13830	26775	2.14	0.0E+00	5032086	NT	Homo sapiens splicing factor 3a, subunit 1, 120KD (SF3A1), mRNA
778	13838	26783	1.88	0.0E+00	AB011399.1	NT	Homo sapiens gene for AF-8, complete cds
782	13842	26787	2.77	0.0E+00	7661966	NT	Homo sapiens KIAA0170 gene product (KIAA0170), mRNA
793	13852	26789	2.38	0.0E+00	D80006.1	NT	Human mRNA for KIAA0184 gene, partial cds
793	13852	26800	2.38	0.0E+00	D80006.1	NT	Human mRNA for KIAA0184 gene, partial cds
798	13857	26804	2.72	0.0E+00	X89772.1	NT	H. sapiens mRNA for interferon alpha/beta receptor (long form)
802	13861	26808	3.38	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
802	13861	26809	3.38	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
807	13865	26815	10.76	0.0E+00	5174478	NT	Homo sapiens pericentri (PCNT) mRNA
808	13866		9.93	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
825	13883	26836	1.58	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
826	13884	26837	2.67	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
828	13886	26839	1.82	0.0E+00	4557696	NT	Homo sapiens potassium voltage-gated channel, Isk-related family, member 1 (KCNE1) mRNA
834	13891	26845	3.12	0.0E+00	AF108830.1	NT	Homo sapiens serine-threonine protein kinase (MNBH) mRNA, complete cds
834	13891	26846	3.12	0.0E+00	AF108830.1	NT	Homo sapiens serine-threonine protein kinase (MNBH) mRNA, complete cds
835	13892	26847	1.34	0.0E+00	AF108830.1	NT	Homo sapiens serine-threonine protein kinase (MNBH) mRNA, complete cds
840	13897	26852	2.16	0.0E+00	4503854	NT	Homo sapiens GA-binding protein transcription factor, alpha subunit (GABPA), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
844	13900	26857	1.23	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
844	13900	26858	1.23	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
851	13907		1.78	0.0E+00	AF027153.1	NT	Homo sapiens sodium/myo-inositol cotransporter (SLC5A3) gene, complete cds
855	13911	26869	4.48	0.0E+00	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
855	13911	26870	4.48	0.0E+00	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
856	13912	26871	10.69	0.0E+00	4507152	NT	Homo sapiens SON DNA binding protein (SON) mRNA
857	13913	26872	4.54	0.0E+00	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
858	13914	26873	14.11	0.0E+00	4506728	NT	Homo sapiens ribosomal protein S6 (RPS6) mRNA
862	13918	26876	1.18	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
862	13918	26877	1.18	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
863	13919	26878	1.8	0.0E+00	AA533272.1	EST_HUMAN	U66d07.s1 NCL CGAP_P10 Homo sapiens cDNA clone IMAGE:997453
863	13919	26879	1.8	0.0E+00	AA533272.1	EST_HUMAN	U66d07.s1 NCL CGAP_P10 Homo sapiens cDNA clone IMAGE:997453
864	13920		10.06	0.0E+00	BF677694.1	EST_HUMAN	602085579F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4249916 5'
868	13924	26880	1.57	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
868	13924	26881	1.57	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
869	13925	26882	1.95	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
869	13925	26883	1.95	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
892	13947	26906	0.86	0.0E+00	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
899	13954	26911	1.72	0.0E+00	BE089592.1	EST_HUMAN	QV0-BT0703-280400-211-g11 BT0703 Homo sapiens cDNA
899	13954	26912	1.72	0.0E+00	BE089592.1	EST_HUMAN	QV0-BT0703-280400-211-g11 BT0703 Homo sapiens cDNA
909	13964	26921	1.69	0.0E+00	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
919	13973		63.74	0.0E+00	4504958	NT	Homo sapiens laminin receptor 1 (67KD, ribosomal protein SA) (LAMR1), mRNA
921	13973		24.73	0.0E+00	4504958	NT	Homo sapiens laminin receptor 1 (67KD, ribosomal protein SA) (LAMR1), mRNA
922	13975	26927	0.71	0.0E+00	AF089747.1	NT	Homo sapiens alpha-1 antichymotrypsin precursor, mRNA, partial cds
923	13976	26928	2.39	0.0E+00	L28101.1	NT	Homo sapiens kallistatin (P14) gene, exons 1-4, complete cds
925	13978	26930	0.64	0.0E+00	Z20656.1	NT	Homo sapiens of cardiac alpha-myosin heavy chain gene
925	13978	26931	0.64	0.0E+00	Z20656.1	NT	Homo sapiens of cardiac alpha-myosin heavy chain gene
928	13979	26932	0.63	0.0E+00	Z20656.1	NT	Homo sapiens of cardiac alpha-myosin heavy chain gene
926	13979	26933	0.63	0.0E+00	Z20656.1	NT	Homo sapiens of cardiac alpha-myosin heavy chain gene
946	13999	26950	2.66	0.0E+00	AB023211.1	NT	Homo sapiens mRNA for KIAA0894 protein, partial cds
946	13999	26951	2.66	0.0E+00	AB023211.1	NT	Homo sapiens mRNA for KIAA0894 protein, partial cds
952	14005	26957	0.68	0.0E+00	M37190.1	NT	Human ras inhibitor mRNA, 3' end
953	14006	26958	8.74	0.0E+00	M37190.1	NT	Human ras inhibitor mRNA, 3' end
954	14007	26959	0.72	0.0E+00	M37190.1	NT	Human ras inhibitor mRNA, 3' end

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
955	14008	26960	0.83	0.0E+00	4507430	NT	Homo sapiens thyrotrophic embryonic factor (TEF), mRNA
955	14008	26961	0.83	0.0E+00	4507430	NT	Homo sapiens thyrotrophic embryonic factor (TEF), mRNA
963	15855	26968	2.24	0.0E+00	A1001948.1	EST_HUMAN	cs98e03.s1 NCI_CGAP_GC3 Homo sapiens cDNA clone IMAGE:1613404 3'
963	15855	26969	2.24	0.0E+00	A1001948.1	EST_HUMAN	cs98e03.s1 NCI_CGAP_GC3 Homo sapiens cDNA clone IMAGE:1613404 3'
965	14017	26971	10.17	0.0E+00	7657266	NT	Homo sapiens KIAA0929 protein Mx2 interacting nuclear target (MINT) homolog (KIAA0929), mRNA
976	14027	26981	2.04	0.0E+00	AB030568.1	NT	Homo sapiens mRNA for PSP24, complete cds
984	14035	26987	1.86	0.0E+00	BF366974.1	EST_HUMAN	PM2-GN0014-050900-001-f02 GN0014 Homo sapiens cDNA
984	14035	26988	1.86	0.0E+00	BF366974.1	EST_HUMAN	PM2-GN0014-050900-001-f02 GN0014 Homo sapiens cDNA
984	14035	26989	1.86	0.0E+00	BF366974.1	EST_HUMAN	PM2-GN0014-050900-001-f02 GN0014 Homo sapiens cDNA
986	14037	26992	3.55	0.0E+00	X62207.1	NT	Homo sapiens partial c-fgr gene, exons 2 and 3
986	14037	26993	3.55	0.0E+00	X62207.1	NT	Homo sapiens partial c-fgr gene, exons 2 and 3
985	14046	27000	2.25	0.0E+00	4757969	NT	Homo sapiens chromodomain protein, Y chromosome-like (CDYL) mRNA
1006	14058	27008	1.17	0.0E+00	U83668.1	NT	Human beta-tubulin (TUB4q) gene, complete cds
1007	14057	27009	13.38	0.0E+00	U83668.1	NT	Human beta-tubulin (TUB4q) gene, complete cds
1008	14057	27009	10.52	0.0E+00	U83668.1	NT	Human beta-tubulin (TUB4q) gene, complete cds
1011	14060		2.58	0.0E+00	AF198490.1	NT	Homo sapiens 8q22.1 region and MTG8 (CBFA2T1) gene, partial cds
1012	14060		5.29	0.0E+00	AF198490.1	NT	Homo sapiens 8q22.1 region and MTG8 (CBFA2T1) gene, partial cds
1016	14064	27015	1.28	0.0E+00	AF111170.3	NT	Homo sapiens 14q32 Jagged2 gene, complete cds; and unknown gene
1017	14064	27015	1.82	0.0E+00	AF111170.3	NT	Homo sapiens 14q32 Jagged2 gene, complete cds; and unknown gene
1018	14064	27015	1.71	0.0E+00	AF111170.3	NT	Homo sapiens 14q32 Jagged2 gene, complete cds; and unknown gene
1019	14065	27016	1.65	0.0E+00	AF111170.3	NT	Homo sapiens 14q32 Jagged2 gene, complete cds; and unknown gene
1022	14068	27019	2.42	0.0E+00	7661685	NT	Homo sapiens DKFZP586M0122 protein (DKFZP586M0122), mRNA
1026	14072	27023	1.21	0.0E+00	5803114	NT	Homo sapiens inner membrane protein, mitochondrial (mitofilin) (IMMT), mRNA
1027	14073		1.58	0.0E+00	AA458680.1	EST_HUMAN	aa86g07.s1 Strategene fetal retina 937202 Homo sapiens cDNA clone IMAGE:838236 3' similar to SW:PRSB_HUMAN P47210 26S PROTEASE REGULATORY SUBUNIT 8;
1030	14076	27027	0.76	0.0E+00	N43182.1	EST_HUMAN	EST51124 WATM1 Homo sapiens cDNA clone 51124 similar to DNA-DIRECTED RNA POLYMERASE II (alignment Ser and Pro with BLASTx or p)
1030	14076	27028	0.76	0.0E+00	N43182.1	EST_HUMAN	EST51124 WATM1 Homo sapiens cDNA clone 51124 similar to DNA-DIRECTED RNA POLYMERASE II (alignment Ser and Pro with BLASTx or p)
1031	14077	27029	1.2	0.0E+00	4759249	NT	Homo sapiens TRAF family member-associated NFKB activator (TANK) mRNA
1031	14077	27030	1.2	0.0E+00	4759249	NT	Homo sapiens TRAF family member-associated NFKB activator (TANK) mRNA
1034	14080		3.19	0.0E+00	8922933	NT	Homo sapiens hypothetical protein FLJ111196 (FLJ111196), mRNA
1049	14095	27046	2.4	0.0E+00	4758599	NT	Homo sapiens heat shock 70kD protein 98 (mortalin-2) (HSPA9B) mRNA

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Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1068	14111	27060	2.13	0.0E+00	4826672	NT	Homo sapiens cadherin 6, K-cadherin (fetal kidney) (CDH6) mRNA
1066	14111	27061	2.13	0.0E+00	4826672	NT	Homo sapiens cadherin 6, K-cadherin (fetal kidney) (CDH6) mRNA
1070	14115	27065	3.18	0.0E+00	8923624	NT	Homo sapiens hypothetical protein FLJ20695 (FLJ20695), mRNA
1070	14115	27066	3.18	0.0E+00	8923624	NT	Homo sapiens hypothetical protein FLJ20695 (FLJ20695), mRNA
1071	14116	27067	28.45	0.0E+00	AJ245922.1	NT	Homo sapiens mRNA for alpha-tubulin 8 (TUBA8 gene)
1073	14118		0.82	0.0E+00	8923087	NT	Homo sapiens hypothetical protein FLJ20080 (FLJ20080), mRNA
1075	14120	27071	3.85	0.0E+00	5174384	NT	Homo sapiens alkylation repair, alkB homolog (ABH), mRNA
1084	14128	27082	1.91	0.0E+00	4758117	NT	Homo sapiens Death associated protein 3 (DAP3) mRNA
1088	14142	27092	2.82	0.0E+00	BE005208.1	EST_HUMAN	MRO-BN0115-200300-003-h08 BN0115 Homo sapiens cDNA
1121	14165	27116	5.54	0.0E+00	7706134	NT	Homo sapiens potassium channel, subfamily K, member 9 (KCNK9), mRNA
1121	14165	27117	5.54	0.0E+00	7706134	NT	Homo sapiens potassium channel, subfamily K, member 9 (KCNK9), mRNA
1134	14177	27127	0.96	0.0E+00	4826947	NT	Homo sapiens protein kinase, X-linked (PRKX) mRNA
1134	14177	27128	0.96	0.0E+00	4826947	NT	Homo sapiens protein kinase, X-linked (PRKX) mRNA
1135	14178	27129	33.54	0.0E+00	4508712	NT	Homo sapiens ribosomal protein S27a (RPS27A) mRNA
1137	14180	27131	2.34	0.0E+00	8923290	NT	Homo sapiens hypothetical protein FLJ20309 (FLJ20309), mRNA
1140	14183	27134	8.07	0.0E+00	AB002059.1	NT	Homo sapiens DNA for Human P2XM, complete cds
1142	14185	27135	20.89	0.0E+00	AB002059.1	NT	Homo sapiens DNA for Human P2XM, complete cds
1143	14186	27136	5.23	0.0E+00	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
1143	14186	27137	5.23	0.0E+00	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
1147	14189	27140	1.84	0.0E+00	7706500	NT	Homo sapiens Npw38-binding protein NpwBP (LOC51728), mRNA
1148	14190	27141	0.76	0.0E+00	X95826.1	NT	H. sapiens ART4 gene
1148	14190	27142	0.76	0.0E+00	X95826.1	NT	H. sapiens ART4 gene
1149	14191	27143	1.25	0.0E+00	AI147650.1	EST_HUMAN	qb22d10.X1 Soares_pregnant uterus_NHPU Homo sapiens cDNA clone IMAGE:1697011 3'
1160	14202	27154	3.19	0.0E+00	4758081	NT	Homo sapiens mRNA for KIAA0903 protein, partial cds
1160	14202	27155	3.19	0.0E+00	4758081	NT	Homo sapiens chondroitin sulfate proteoglycan 2 (versican) (CSPG2) mRNA
1161	14203	27156	0.89	0.0E+00	9968844	NT	Homo sapiens chondroitin sulfate proteoglycan 2 (versican) (CSPG2) mRNA
1172	14213	27167	8.28	0.0E+00	7305078	NT	Homo sapiens chromosome 12 open reading frame 3 (C12ORF3), mRNA
1172	14213	27168	8.28	0.0E+00	7305078	NT	Homo sapiens glutamate decarboxylase 1 (brain, 67kD) (GAD1), transcript variant GAD25, mRNA
1175	14216	27171	1.08	0.0E+00	AB037835.1	NT	Homo sapiens mRNA for KIAA1414 protein, partial cds
1182	14223	27180	1.21	0.0E+00	4567887	NT	Homo sapiens keratin 18 (KRT18) mRNA
1196	14236	27191	0.64	0.0E+00	AF073298.1	NT	Homo sapiens Na+/H+ exchanger isoform 2 (NHE2) mRNA, complete cds
1214	14252		1.24	0.0E+00	7657336	NT	Homo sapiens mult. (E. coli) homolog 3 (MLH3), mRNA
1230	14268	27225	1.18	0.0E+00	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1230	14268	27226	1.18	0.0E+00	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
1231	14269	27227	1.6	0.0E+00	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
1232	15861	27228	1.7	0.0E+00	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
1251	14287	27253	6.18	0.0E+00	AF109718.1	NT	Homo sapiens chromosome 3 subtelomeric region
1252	14288	27254	0.98	0.0E+00	4503098	NT	Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA
1262	14297	27260	0.73	0.0E+00	4505740	NT	Homo sapiens prefoldin 4 (PF4D4), mRNA
1271	14306		2.04	0.0E+00	Y18000.1	NT	Homo sapiens NF2 gene
1279	14314	27275	46.44	0.0E+00	4506718	NT	Homo sapiens ribosomal protein S2 (RPS2), mRNA
1286	14321	27284	4.02	0.0E+00	AF084479.1	NT	Homo sapiens Williams-Beuren syndrome deletion transcript 9 (WBSCR9) mRNA, complete cds
1292	14327	27288	1.08	0.0E+00	AB040940.1	NT	Homo sapiens mRNA for KIAA1507 protein, partial cds
1292	14327	27289	1.08	0.0E+00	AB040940.1	NT	Homo sapiens mRNA for KIAA1507 protein, partial cds
1303	14339	27302	2	0.0E+00	5174748	NT	Homo sapiens Wofram syndrome (WFS) mRNA
1303	14339	27303	2	0.0E+00	5174748	NT	Homo sapiens Wofram syndrome (WFS) mRNA
1303	14339	27304	2	0.0E+00	5174748	NT	Homo sapiens Wofram syndrome (WFS) mRNA
1304	14340		3.46	0.0E+00	AF096156.1	NT	Homo sapiens protein phosphatase 2A BR gamma subunit gene, exon 5
1314	15863	27316	1.28	0.0E+00	7657529	NT	Homo sapiens rhabdoid tumor deletion region protein 1 (RTDR1), mRNA
1314	15863	27317	1.26	0.0E+00	7657529	NT	Homo sapiens rhabdoid tumor deletion region protein 1 (RTDR1), mRNA
1319	14354	27322	6.23	0.0E+00	5803146	NT	Homo sapiens ring finger protein 9 (RNF9), mRNA
1320	14355	27323	0.81	0.0E+00	4508004	NT	Homo sapiens zinc finger protein 173 (ZNF173) mRNA
1322	14357	27324	6.58	0.0E+00	5803146	NT	Homo sapiens zinc finger protein 9 (RNF9), mRNA
1323	14358	27325	33.1	0.0E+00	4508004	NT	Homo sapiens zinc finger protein 173 (ZNF173) mRNA
1325	14360	27327	4.74	0.0E+00	AB011149.1	NT	Homo sapiens mRNA for KIAA0577 protein, complete cds
1326	14361	27328	5.7	0.0E+00	7661965	NT	Homo sapiens KIAA0170 gene product (KIAA0170), mRNA
1327	14362	27329	9.47	0.0E+00	7661965	NT	Homo sapiens KIAA0170 gene product (KIAA0170), mRNA
1328	14363	27330	5.14	0.0E+00	8567387	NT	Homo sapiens period (Drosophila) homolog 3 (PER3), mRNA
1328	14363	27331	5.14	0.0E+00	8567387	NT	Homo sapiens period (Drosophila) homolog 3 (PER3), mRNA
1340	14374	27344	2.17	0.0E+00	M14123.1	NT	Human endogenous retrovirus HERV-K10
1407	14440	27410	1.34	0.0E+00	AJ250014.1	NT	Homo sapiens mRNA for Familial Cylindromatosis cyd gene
1415	14448	27421	1.79	0.0E+00	AI208756.1	EST_HUMAN	q938b06.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1837427 3' similar to WP:T27A1.5 CE14213
1416	14449	27422		0.0E+00	6042206	NT	RAN, member RAS oncogene family/Homo sapiens RAN, member RAS oncogene family (RAN), mRNA
1423	14456	27430	1.31	0.0E+00	4505646	NT	Homo sapiens proprotein convertase subtilisin/kexin type 2 (PCSK2) mRNA
1423	14456	27431	1.31	0.0E+00	4505646	NT	Homo sapiens proprotein convertase subtilisin/kexin type 2 (PCSK2) mRNA

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1425	14458	27434	2.29	0.0E+00	7705565	NT	Homo sapiens KIAA1114 protein (KIAA1114), mRNA
1425	14458	27435	2.29	0.0E+00	7705565	NT	Homo sapiens KIAA1114 protein (KIAA1114), mRNA
1427	14480	27438	6.81	0.0E+00	AJ238083.1	NT	Homo sapiens partial AF-4 gene, exons 2 to 7 and Alu repeat elements
1434	14468	27445	2.81	0.0E+00	AF038280.1	NT	Homo sapiens alpha1-6fucosyltransferase (alpha1-6FucT) gene, exon 7
1447	14480	27456	1.01	0.0E+00	U35837.1	NT	Human nebulin mRNA, partial cds
1447	14480	27457	1.01	0.0E+00	U35837.1	NT	Human nebulin mRNA, partial cds
1457	14490	27464	3.14	0.0E+00	AL132898.1	NT	Novel human gene on chromosome 20
1459	14492	27465	2.5	0.0E+00	AL137764.1	NT	Novel human gene mapping to chromosome 1
1463	14496	27470	1.59	0.0E+00	D87077.1	NT	Human mRNA for KIAA0240 gene, partial cds
1466	14499	27473	5.36	0.0E+00	6912457	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
1468	14501	27475	1.7	0.0E+00	7661965	NT	Homo sapiens KIAA0170 gene product (KIAA0170), mRNA
1468	14501	27476	1.7	0.0E+00	7661965	NT	Homo sapiens KIAA0170 gene product (KIAA0170), mRNA
1469	14502		1.04	0.0E+00	Y07829.2	NT	Homo sapiens RFB30 gene for RING finger protein
1513	14545	27518	2.11	0.0E+00	7706434	NT	Homo sapiens hCDC for homolog of Drosophila headcase (LOC51699), mRNA
1528	14561	27532	1.94	0.0E+00	AA481172.1	EST_HUMAN	aa34803.1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:815118 5'
1534	14567	27536	29.54	0.0E+00	AF023860.1	NT	Cercopithecus aethiops cyclophilin A mRNA, complete cds
1534	14567	27537	29.54	0.0E+00	AF023860.1	NT	Cercopithecus aethiops cyclophilin A mRNA, complete cds
1536	14569	27540	1.37	0.0E+00	AW976097.1	EST_HUMAN	EST388206 MAGE resequences, MAGN Homo sapiens cDNA
1536	14569	27541	1.37	0.0E+00	AW976097.1	EST_HUMAN	EST388206 MAGE resequences, MAGN Homo sapiens cDNA
1538	14571		2.22	0.0E+00	U78027.1	NT	Homo sapiens Bruton's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein
1539	14572	27544	2.25	0.0E+00	M16768.1	NT	(L44L) and FTP3 (FTP3) genes, complete cds
1540	14573	27545	2.04	0.0E+00	4505404	NT	Human T-cell receptor gamma chain VJCI-CII region mRNA, complete cds
1540	14573	27546	2.04	0.0E+00	4505404	NT	Homo sapiens transmembrane glycoprotein (GPNMB) mRNA
1541	14574	27547	3.31	0.0E+00	7682405	NT	Homo sapiens KIAA0957 protein (KIAA0957), mRNA
1542	14575		7.04	0.0E+00	7686972	NT	Homo sapiens TNF-inducible protein CG12-1 (CG12-1), mRNA
1548	14581	27553	2.45	0.0E+00	M98478.1	NT	Human transglutaminase mRNA, complete cds
1551	14584	27555	1.24	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
1551	14584	27556	1.24	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
1552	15871		19.78	0.0E+00	4506654	NT	Homo sapiens ribosomal protein L5 (RPL5) mRNA
1553	14586	27557	26.31	0.0E+00	M14189.1	NT	Human laminin receptor (2H5 epitope) mRNA, 5' end
1563	14596	27571	0.94	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
1563	14596	27572	0.94	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
1565	14598	27573	10.15	0.0E+00	4503088	NT	Homo sapiens chondralin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1583	14616	27589	9.8	0.0E+00	Z83738.1	NT	H.sapiens HH2B/9 gene
1584	14617	27590	1.81	0.0E+00	5921460	NT	Homo sapiens butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA
1584	14617	27591	1.81	0.0E+00	5921460	NT	Homo sapiens butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA
1585	14618	27592	12.62	0.0E+00	AV690831.1	EST_HUMAN	AV690831 GKC Homo sapiens cDNA clone GKCB0F02 5'
1585	14618	27593	12.62	0.0E+00	AV690831.1	EST_HUMAN	AV690831 GKC Homo sapiens cDNA clone GKCB0F02 5'
1588	15872	27596	2.54	0.0E+00	AB040905.1	NT	Homo sapiens mRNA for KIAA1472 protein, partial cds
1592	14624	27597	1.24	0.0E+00	AF157476.1	NT	Homo sapiens DNA polymerase zeta catalytic subunit (REV3) mRNA, complete cds
1594	14626	27600	4.83	0.0E+00	7662183	NT	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
1594	14626	27601	4.83	0.0E+00	7662183	NT	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
1596	14628	27602	26.26	0.0E+00	5729876	NT	Homo sapiens heat shock 70kD protein 10 (HSC71) (HSPA10), mRNA
1596	14628	27603	26.26	0.0E+00	5729876	NT	Homo sapiens heat shock 70kD protein 10 (HSC71) (HSPA10), mRNA
1598	14630	27605	1.56	0.0E+00	M91803.1	NT	Human sodium channel mRNA
1613	14645	27621	7.01	0.0E+00	H26973.1	EST_HUMAN	yo76c05.s1 Soares adult brain N24-HB55Y Homo sapiens cDNA clone IMAGE:183848 3'
1622	14655	27632	2.31	0.0E+00	AB046829.1	NT	Homo sapiens mRNA for KIAA1609 protein, partial cds
1622	14655	27633	2.31	0.0E+00	AB046829.1	NT	Homo sapiens mRNA for KIAA1609 protein, partial cds
1644	14676	27649	1.04	0.0E+00	AW44637.1	EST_HUMAN	UI-H-B13-gjw-c-04-0-UJ.st NCI CGAP Sub5 Homo sapiens cDNA clone IMAGE:2733294 3'
1673	14705	27682	1.19	0.0E+00	BE144364.1	EST_HUMAN	MRO-HT0166-191198-004-b11 HT0166 Homo sapiens cDNA
1673	14705	27683	1.19	0.0E+00	BE144364.1	EST_HUMAN	MRO-HT0166-191198-004-b11 HT0166 Homo sapiens cDNA
1677	14709	27687	1.84	0.0E+00	AI768104.1	EST_HUMAN	wg81b07.x1 Soares NSF_F8_gw_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:2371477 3' similar to TR:Q62788 Q62788 CYS2/HIS2 ZINC FINGER PROTEIN ;
1678	14710	27688	1.44	0.0E+00	4758513	NT	Homo sapiens hematopoietic-derived zinc finger protein (HD-ZNF1) mRNA
1678	14711	27688	3.61	0.0E+00	AF057177.1	NT	Homo sapiens T-cell receptor gamma V1 gene region
1683	14714	27693	1.72	0.0E+00	M29580.1	NT	Human zinc-finger protein 7 (ZFP7) mRNA, complete cds
1683	14714	27694	1.72	0.0E+00	M29580.1	NT	Human zinc-finger protein 7 (ZFP7) mRNA, complete cds
1685	14716	27696	1.53	0.0E+00	4557887	NT	Homo sapiens keratin 18 (KRT18) mRNA
1686	14717	27697	2.12	0.0E+00	7657065	NT	Homo sapiens v-ets avian erythroblastosis virus E26 oncogene related (ERG), mRNA
1690	14721	27700	1.27	0.0E+00	BE222374.1	EST_HUMAN	hu11d05.x1 NCI CGAP Lu24 Homo sapiens cDNA clone IMAGE:3166281 3' similar to TR:O65147 O65147 MKP-1 LIKE PROTEIN TYROSINE PHOSPHATASE ;
1690	14721	27701	1.27	0.0E+00	BE222374.1	EST_HUMAN	hu11d05.x1 NCI CGAP Lu24 Homo sapiens cDNA clone IMAGE:3166281 3' similar to TR:O65147 O65147 MKP-1 LIKE PROTEIN TYROSINE PHOSPHATASE ;
1693	14723	27705	5.17	0.0E+00	H30132.1	EST_HUMAN	yo59e08.r1 Soares breast 3NBHBst Homo sapiens cDNA clone IMAGE:182246 5' similar to gb:M64089 GAMMA-GLUTAMYL TRANSPEPTIDASE 5 PRECURSOR (HUMAN);
1693	14723	27706	5.17	0.0E+00	H30132.1	EST_HUMAN	yo59e08.r1 Soares breast 3NBHBst Homo sapiens cDNA clone IMAGE:182246 5' similar to gb:M64089 GAMMA-GLUTAMYL TRANSPEPTIDASE 5 PRECURSOR (HUMAN);

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1695	14725		0.94	0.0E+00	AI149880.1	EST_HUMAN	qf43f09.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1752809 3'
1696	14726	27708	7.26	0.0E+00	Z80780.1	NT	H. sapiens H2B/h gene
1696	14726	27709	7.26	0.0E+00	Z80780.1	NT	H. sapiens H2B/h gene
1699	14729		28.3	0.0E+00	5031748	NT	Homo sapiens high-mobility group (nonhistone chromosomal) protein 17 (HMG17), mRNA
1708	14739	27721	0.91	0.0E+00	AF169963.1	NT	Homo sapiens WNT16 protein (WNT16) mRNA, complete cds
1710	14740	27724	5.35	0.0E+00	8923841	NT	Homo sapiens FOXJ2 forkhead factor (LOC55810), mRNA
1713	14743	27727	1.03	0.0E+00	5453855	NT	Homo sapiens pericentriolar material 1 (PCM1) mRNA
1716	14746	27731	0.96	0.0E+00	M75980.1	NT	Human hepatocyte growth factor gene, exon 15
1716	14746	27732	0.98	0.0E+00	M75980.1	NT	Human hepatocyte growth factor gene, exon 15
1720	14750	27736	1.37	0.0E+00	4826973	NT	Homo sapiens RNA binding motif protein, Y chromosome, family 1, member A1 (RBM1A1) mRNA
1726	14756	27743	20.03	0.0E+00	AB026542.1	NT	Homo sapiens WAVE2 mRNA for WASP-family protein, complete cds
1728	14758		2.59	0.0E+00	S94400.1	NT	TCR zeta [human, Genomic] mRNA, 365 nt, segment 1 of 8
1737	14767	27752	0.97	0.0E+00	4557538	NT	Homo sapiens sulfite carrier family 26 (sulfate transporter), member 2 (SLC26A2) mRNA
1744	15876	27759	1.21	0.0E+00	11545911	NT	Homo sapiens NOD2 protein (NOD2), mRNA
1760	14789	27775	2.63	0.0E+00	AF273841.1	NT	Homo sapiens SMCY (SMCY) gene, complete cds
1800	15877		35.79	0.0E+00	4506718	NT	Homo sapiens ribosomal protein S2 (RPS2) mRNA
1805	14833	27821	2.42	0.0E+00	4557556	NT	Homo sapiens E1A binding protein p300 (EP300) mRNA
1805	14833	27822	2.42	0.0E+00	4557556	NT	Homo sapiens E1A binding protein p300 (EP300) mRNA
1807	14835	27825	2.05	0.0E+00	U63963.1	NT	Human CSF-1 receptor (FMS) gene, complete cds, and (SMF) gene, partial cds
1810	14838		1.32	0.0E+00	W76671.1	EST_HUMAN	z66609.f1 Soares_fetal_heart_NbHH19W Homo sapiens cDNA clone IMAGE:345664 5'
1811	15878	27829	3.9	0.0E+00	4505332	NT	Homo sapiens nuclear autophagic sperm protein (histone-binding) (NASP) mRNA
1812	14839	27830	1.13	0.0E+00	AA113030.1	EST_HUMAN	zn65c09.s1 Stratagene HeLa cell s3 937216 Homo sapiens cDNA clone IMAGE:563056 3'
1824	14851	27845	14.85	0.0E+00	U14967.1	NT	Human ribosomal protein L21 mRNA, complete cds
1826	14853	27848	5.94	0.0E+00	AB002331.1	NT	Human mRNA for KIAA0333 gene, partial cds
1827	14854	27849	6.64	0.0E+00	4502264	NT	Homo sapiens activating transcription factor 4 (tax-responsive enhancer element B67) (ATF4) mRNA
1827	14854	27850	6.64	0.0E+00	4502264	NT	Homo sapiens activating transcription factor 4 (tax-responsive enhancer element B67) (ATF4) mRNA
1827	14854	27851	6.64	0.0E+00	4502264	NT	Homo sapiens activating transcription factor 4 (tax-responsive enhancer element B67) (ATF4) mRNA
1851	14877	27872	6.56	0.0E+00	6005855	NT	Homo sapiens Retina-derived POU-domain factor-1 (RPF-1), mRNA
1851	14877	27873	6.56	0.0E+00	6005855	NT	Homo sapiens Retina-derived POU-domain factor-1 (RPF-1), mRNA
1861	14887	27883	1.34	0.0E+00	AB032978.1	NT	Homo sapiens mRNA for KIAA1152 protein, partial cds
1861	14887	27884	1.34	0.0E+00	AB032978.1	NT	Homo sapiens mRNA for KIAA1152 protein, partial cds

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1865	14890	27886	3.28	0.0E+00	4828783	NT	Homo sapiens potassium voltage-gated channel, Shab-related subfamily, member 1 (KCNB1) mRNA
1865	14890	27887	3.28	0.0E+00	4828783	NT	Homo sapiens potassium voltage-gated channel, Shab-related subfamily, member 1 (KCNB1) mRNA
1866	14891	27888	6.86	0.0E+00	U07147.1	NT	Human retinal degeneration slow (RDS) gene, exon 1
1866	14891	27889	6.86	0.0E+00	U07147.1	NT	Human retinal degeneration slow (RDS) gene, exon 1
1869	14894	27892	1.48	0.0E+00	AW207280.1	EST_HUMAN	UI-H-B1-afn-f07-0-UI.st NCI CGAP Sub3 Homo sapiens cDNA clone IMAGE:2722333 3'
1869	14894	27893	1.48	0.0E+00	AW207280.1	EST_HUMAN	UI-H-B1-afn-f07-0-UI.st NCI CGAP Sub3 Homo sapiens cDNA clone IMAGE:2722333 3'
1892	14917	27912	3.46	0.0E+00	BE277465.1	EST_HUMAN	601179164F1 NIH MGC 20 Homo sapiens cDNA clone IMAGE:3547239 5'
1892	14917	27913	3.46	0.0E+00	BE277465.1	EST_HUMAN	601179164F1 NIH MGC 20 Homo sapiens cDNA clone IMAGE:3547239 5'
1896	14960	27956	0.93	0.0E+00	7657390	NT	Homo sapiens nuclear protein (NP220), mRNA
1936	14960	27957	0.93	0.0E+00	7657390	NT	Homo sapiens nuclear protein (NP220), mRNA
1939	14963	27959	2.02	0.0E+00	4506384	NT	Homo sapiens RAD1 (S. pombe) homolog (RAD1) mRNA, and translated products
1939	14963	27960	2.02	0.0E+00	4506384	NT	Homo sapiens RAD1 (S. pombe) homolog (RAD1) mRNA, and translated products
1948	14972	27970	1.13	0.0E+00	AF157476.1	NT	Homo sapiens DNA polymerase zeta catalytic subunit (REV3) mRNA, complete cds
1949	15881	27970	1.41	0.0E+00	M98478.1	NT	Human transglutaminase mRNA, complete cds
1949	15881	27971	1.41	0.0E+00	M98478.1	NT	Human transglutaminase mRNA, complete cds
1954	14977	27978	2.02	0.0E+00	4507464	NT	Homo sapiens transforming growth factor, beta 3 (TGFB3), mRNA
1954	14977	27979	2.02	0.0E+00	4507464	NT	Homo sapiens transforming growth factor, beta 3 (TGFB3), mRNA
1957	14979	27981	1.06	0.0E+00	7657038	NT	Homo sapiens death receptor 6 (DR6), mRNA
1959	14981		5.63	0.0E+00	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
1964	14986		2.93	0.0E+00	M55632.1	NT	Human lipolesterase I pseudogene 1
1965	15882	27988	1.46	0.0E+00	5901905	NT	Homo sapiens butyrophilin, subfamily 3, member A2 (BTN3A2), mRNA
1973	14994	27996	1.88	0.0E+00	4809282	NT	Homo sapiens histidine ammonia-lyase (HAL) mRNA
1973	14994	27996	1.88	0.0E+00	4809282	NT	Homo sapiens histidine ammonia-lyase (HAL) mRNA
1984	15005		0.9	0.0E+00	AL163252.2	NT	Homo sapiens chromosome 21 segment HS21C052
1986	15007	28010	1.81	0.0E+00	8400716	NT	Homo sapiens nebulin (NEB), mRNA
1986	15007	28011	1.81	0.0E+00	8400716	NT	Homo sapiens nebulin (NEB), mRNA
1987	15008	28012	2.97	0.0E+00	4826638	NT	Homo sapiens actinin, alpha 4 (ACTN4) mRNA
1987	15008	28013	2.97	0.0E+00	4826638	NT	Homo sapiens actinin, alpha 4 (ACTN4) mRNA
1997	15018	28025	1.05	0.0E+00	AB018333.1	NT	Homo sapiens mRNA for KIAA0790 protein, partial cds
1997	15018	28026	1.05	0.0E+00	AB018333.1	NT	Homo sapiens mRNA for KIAA0790 protein, partial cds
2003	15024	28030	1.59	0.0E+00	M33782.1	NT	Human TFEB protein mRNA, partial cds

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Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2003	15024	28031	1.59	0.0E+00	M33792.1	NT	Human TFEB protein mRNA, partial cds
2005	15026	28032	1.29	0.0E+00	AW193024.1	EST_HUMAN	x69b01.x1 NCI_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2879913 3'
2005	15026	28033	1.29	0.0E+00	AW193024.1	EST_HUMAN	x69b01.x1 NCI_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2879913 3'
2006	15027	28034	8.19	0.0E+00	6912457	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
2006	15027	28035	6.19	0.0E+00	6912457	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
2008	15029	28037	1.33	0.0E+00	AB011149.1	NT	Homo sapiens mRNA for KIAA0577 protein, complete cds
2009	15030	28038	1.36	0.0E+00	Z47556.1	NT	H. sapiens genes for semenogelin I and semenogelin II
2009	15030	28039	1.36	0.0E+00	Z47556.1	NT	H. sapiens genes for semenogelin I and semenogelin II
2016	15037	28048	3.07	0.0E+00	AB040946.1	NT	Homo sapiens mRNA for KIAA1513 protein, partial cds
2036	15055	28072	1.16	0.0E+00	AF273841.1	NT	Homo sapiens SMCY (SMCY) gene, complete cds
2036	15055	28073	1.16	0.0E+00	AF273841.1	NT	Homo sapiens SMCY (SMCY) gene, complete cds
2069	15086	28104	1.04	0.0E+00	7706742	NT	Homo sapiens TP53TG3a (TP53TG3a), mRNA
2074	15091	28108	0.92	0.0E+00	4503648	NT	Homo sapiens coagulation factor IX (plasma thromboplastic component, Christmas disease, hemophilia B) (F9) mRNA
2075	15092	28109	4.79	0.0E+00	AU140831.1	EST_HUMAN	AU140831 PLACE4 Homo sapiens cDNA clone PLACE4000321 5'
2077	15094	28111	1.69	0.0E+00	AA077589.1	EST_HUMAN	7B22E10 Chromosome 7 Fetal Brain cDNA Library Homo sapiens cDNA clone 7B22E10
2077	15094	28112	1.69	0.0E+00	AA077589.1	EST_HUMAN	7B22E10 Chromosome 7 Fetal Brain cDNA Library Homo sapiens cDNA clone 7B22E10
2079	15096		3.79	0.0E+00	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
2081	15098		1.64	0.0E+00	4585863	NT	Homo sapiens phospholipase 6A, cGMP-specific, rod, alpha (PDE6A), mRNA
2083	15100		1.7	0.0E+00	AI244247.1	EST_HUMAN	q960f08.x1 NCI_CGAP_U12 Homo sapiens cDNA clone IMAGE:1988871 3' similar to contains Alu repetitive element
2088	15105	28123	3.3	0.0E+00	BE877225.1	EST_HUMAN	601485146F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3887747 5'
2089	15106	28124	1.88	0.0E+00	BF315325.1	EST_HUMAN	601902604F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4135320 5'
2089	15108	28125	1.88	0.0E+00	BF315325.1	EST_HUMAN	601802604F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4135320 5'
2093	15110	28129	2.38	0.0E+00	BE697125.1	EST_HUMAN	RC3-CT0413-270700-022-d10 CT0413 Homo sapiens cDNA
2093	15110	28130	2.38	0.0E+00	BE697125.1	EST_HUMAN	RC3-CT0413-270700-022-d10 CT0413 Homo sapiens cDNA
2098	15115	28136	2.35	0.0E+00	LO0620.1	NT	Human plasma membrane calcium ATPase isoform 2 (APT2B2) mRNA, complete cds
2098	15115	28137	2.35	0.0E+00	LO0620.1	NT	Human plasma membrane calcium ATPase isoform 2 (APT2B2) mRNA, complete cds
2103	15120	28141	2.29	0.0E+00	4758489	NT	Homo sapiens GTP binding protein 1 (GTPBP1) mRNA
2122	15139		3.16	0.0E+00	BE767964.1	EST_HUMAN	QV1-GN0065-140800-318-c10 GN0065 Homo sapiens cDNA
2123	15140		1.29	0.0E+00	AF018963.1	NT	Homo sapiens X-linked juvenile retinoschisis protein (XLR1) gene, exon 6 and complete cds
2125	15142	28159	3.87	0.0E+00	BF027562.1	EST_HUMAN	601672068F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3954785 5'
2126	15143	28160	1.42	0.0E+00	BE072624.1	EST_HUMAN	PM0-BT0547-210300-004-F04 BT0547 Homo sapiens cDNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2128	15145	28161	1.26	0.0E+00	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
2131	15148	28163	2.85	0.0E+00	AW752708.1	EST_HUMAN	IL3-CT0219-271089-022-G10 CT0219 Homo sapiens cDNA
2133	15150	28165	4.92	0.0E+00	A1904640.1	EST_HUMAN	QV-BT065-020399-092 BT065 Homo sapiens cDNA
2133	15150	28166	4.92	0.0E+00	A1904640.1	EST_HUMAN	QV-BT065-020399-092 BT065 Homo sapiens cDNA
2191	15206		1.37	0.0E+00	L14787.1	NT	Human DNA-binding protein mRNA, 3' end
2196	15211	28229	0.93	0.0E+00	BE274696.1	EST_HUMAN	601122338F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3346688 5'
2198	15213	28232	16.22	0.0E+00	AV738288.1	EST_HUMAN	AV738288 CB Homo sapiens cDNA clone CBNBDE08 5'
2198	15213	28233	16.22	0.0E+00	AV738288.1	EST_HUMAN	AV738288 CB Homo sapiens cDNA clone CBNBDE08 5'
2200	15215	28235	1.16	0.0E+00	AA931691.1	EST_HUMAN	cc32e01.s1 NCI CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1567896 3'
2204	15219	28239	32.02	0.0E+00	BF344434.1	EST_HUMAN	602014829F1 NCI CGAP_Brn64 Homo sapiens cDNA clone IMAGE:4150734 5'
2205	15220	28240	25.7	0.0E+00	BE748899.1	EST_HUMAN	601572186T1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:3839012 3'
2209	15224	28244	6.56	0.0E+00	BF377897.1	EST_HUMAN	CM1-TN0141-260900-439-508 TN0141 Homo sapiens cDNA
2209	15224	28245	6.56	0.0E+00	BF377897.1	EST_HUMAN	CM1-TN0141-260900-439-508 TN0141 Homo sapiens cDNA
2213	15887	28250	1.7	0.0E+00	BF313617.1	EST_HUMAN	601900261F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4129622 5'
2216	15230	28253	1.26	0.0E+00	BE018750.1	EST_HUMAN	bb84e02.y1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3049082 5' similar to TR:Q15170 Q15170 TRANSCRIPTION FACTOR S-II-RELATED PROTEIN ;
2217	15231	28254	1.59	0.0E+00	AA042813.1	EST_HUMAN	2k63c07.s1 Soares_pregnant_uterus_NbhPU Homo sapiens cDNA clone IMAGE:486540 3' similar to gb:X65857_cds1 OLFACTORY RECEPTOR-LIKE PROTEIN HGMP07E (HUMAN);
2217	15231	28255	1.59	0.0E+00	AA042813.1	EST_HUMAN	2k63c07.s1 Soares_pregnant_uterus_NbhPU Homo sapiens cDNA clone IMAGE:486540 3' similar to gb:X65857_cds1 OLFACTORY RECEPTOR-LIKE PROTEIN HGMP07E (HUMAN);
2225	15239	28263	3.38	0.0E+00	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
2225	15239	28264	3.38	0.0E+00	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
2230	15244		1.57	0.0E+00	U36264.1	NT	Homo sapiens chromosome 21 segment HS21C004
2252	15266	28293	7.38	0.0E+00	4557556	NT	Human beta-prime-adaptin (BAM22) gene, exon 16
2258	15272	28297	1.33	0.0E+00	7662401	NT	Homo sapiens KIAA0952 protein (KIAA0952), mRNA
2264	15278	28303	2.29	0.0E+00	BE955281.1	EST_HUMAN	601433525F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3919607 5'
2266	15280	28305	1.56	0.0E+00	BE905563.1	EST_HUMAN	601495208F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3897457 5'
2266	15280	28306	1.56	0.0E+00	BE905563.1	EST_HUMAN	601495208F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3897457 5'
2269	15282	28308	1.54	0.0E+00	AB037784.1	NT	Homo sapiens mRNA for KIAA1363 protein, partial cds
2308	15320	28340	1.32	0.0E+00	BF344756.1	EST_HUMAN	602014009F1 NCI CGAP_Brn64 Homo sapiens cDNA clone IMAGE:4149770 5'
2308	15320	28341	1.32	0.0E+00	BF344756.1	EST_HUMAN	602014009F1 NCI CGAP_Brn64 Homo sapiens cDNA clone IMAGE:4149770 5'
2309	15321	28342	4.01	0.0E+00	11545748	NT	Homo sapiens differentially expressed in FDCP (mouse homolog) 6 (DEF6), mRNA
2309	15321	28343	4.01	0.0E+00	11545748	NT	Homo sapiens differentially expressed in FDCP (mouse homolog) 6 (DEF6), mRNA

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2310	15322	28344	2.11	0.0E+00	AI078404.1	EST_HUMAN	oz09c07.x1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:1674828 3'
2312	15324	28346	1.43	0.0E+00	AA428001.1	EST_HUMAN	z178a11.r1 Soares_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:756740 5'
2312	15324	28347	1.43	0.0E+00	AA428001.1	EST_HUMAN	z178a11.r1 Soares_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:756740 5'
2314	15326	28349	2.21	0.0E+00	BF347039.1	EST_HUMAN	602021846F1 NCL_CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4157339 5'
2315	14572	27544	1.36	0.0E+00	M16768.1	NT	Human T-cell receptor gamma chain VJCI-CII-CIII region mRNA, complete cds
2320	15331	28355	1.09	0.0E+00	L02840.1	NT	Homo sapiens potassium channel Kv2.1 mRNA, complete cds
2321	15332	28356	1.57	0.0E+00	6325466	NT	Homo sapiens flavin containing monooxygenase 3 (FMO3), mRNA
2327	15338	28361	1.83	0.0E+00	BE676095.1	EST_HUMAN	7122a02.x1 NCL_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:3285370 3' similar to TR:O94939 O94939
2330	15341	28363	5.18	0.0E+00	AF044571.1	NT	KIAA0857 PROTEIN ;
2331	15342	28364	2.11	0.0E+00	AI825542.1	EST_HUMAN	Homo sapiens phosphotyrase kinase alpha subunit (PHKA2) gene, exon 32
2336	15347	28368	1.76	0.0E+00	5803178	NT	ty57g08.x1 NCL_CGAP_U12 Homo sapiens cDNA clone IMAGE:2283182 3'
2336	15347	28369	1.76	0.0E+00	5803178	NT	Homo sapiens sperm specific antigen 2 (SSFA2), mRNA
2342	15352	28372	1.44	0.0E+00	7682007	NT	Homo sapiens sperm specific antigen 2 (SSFA2), mRNA
2342	15352	28373	1.44	0.0E+00	7682007	NT	Homo sapiens KIAA0218 gene product (KIAA0218), mRNA
2346	15355	28377	0.97	0.0E+00	D83778.1	NT	Homo sapiens KIAA0218 gene product (KIAA0218), mRNA
2346	15355	28378	0.97	0.0E+00	D83778.1	NT	Human mRNA for KIAA0184 gene, partial cds
2356	15365	28386	3.77	0.0E+00	5174678	NT	Human mRNA for KIAA0194 gene, partial cds
2360	15368	28390	1.86	0.0E+00	AU131142.1	EST_HUMAN	Homo sapiens signal regulatory protein, beta, 1 (SIRP-BETA-1) mRNA
2361	15369		8.87	0.0E+00	BE794026.1	EST_HUMAN	AU131142 NT2RP3 Homo sapiens cDNA clone NT2RP3002084 5'
2362	15370	28391	1.23	0.0E+00	AW867076.1	EST_HUMAN	601586843F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3941003 5'
2363	15371	28392	3.7	0.0E+00	7682017	NT	MR1-SN0033-120400-002-a04 SN0033 Homo sapiens cDNA
2364	15372	28393	2.27	0.0E+00	4758497	NT	Homo sapiens KIAA0244 protein (KIAA0244), mRNA
2364	15372	28394	2.27	0.0E+00	4758497	NT	Homo sapiens hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase) (H6PD), mRNA
2365	15373						Homo sapiens hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase) (H6PD), mRNA
2367	15375	28396	6.34	0.0E+00	AF280107.1	NT	Homo sapiens cytochrome P450 polypeptide 43 (CYP3A43) gene, partial cds; cytochrome P450 polypeptide 4 (CYP3A4) and cytochrome P450 polypeptide 7 (CYP3A7) genes, complete cds; and cytochrome P450 polypeptide 5 (CYP3A5) gene, partial cds
2367	15375	28397	13.47	0.0E+00	AU118082.1	EST_HUMAN	AU118082 HEMBA1 Homo sapiens cDNA clone HEMBA1002839 5'
2367	15375	28398	13.47	0.0E+00	AU118082.1	EST_HUMAN	AU118082 HEMBA1 Homo sapiens cDNA clone HEMBA1002839 5'
2368	15376	28399	0.96	0.0E+00	8923089	NT	AU118082 HEMBA1 Homo sapiens cDNA clone HEMBA1002839 5'
2424	15431	28453	1.11	0.0E+00	AU119582.1	EST_HUMAN	Homo sapiens hypothetical protein FLJ20081 (FLJ20081), mRNA
2426	15433		4.37	0.0E+00	AI042035.1	EST_HUMAN	AU119582 HEMBA1 Homo sapiens cDNA clone HEMBA1006155 5'
							ox00602.x1 Soares_NHMPU_S1 Homo sapiens cDNA clone IMAGE:1660883 3' similar to TR:O08662
							O08662 230KDA PHOSPHATIDYLINOSITOL 4-KINASE ;

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2429	15436		1.2	0.0E+00	BE95605.1	EST_HUMAN	601432608F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3918168 5'
2439	15446		1.83	0.0E+00	AB005622.1	EST_HUMAN	AB005622 HeLa cDNA (T.Nom) Homo sapiens cDNA similar to adenylate kinase isozyme 2
2443	15449	28468	5.37	0.0E+00	6006002	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA
2446	15451	28471	2.23	0.0E+00	D85606.1	NT	Homo sapiens gene for cholecystinin type-A receptor, complete cds
2448	15451	28472	2.23	0.0E+00	D85606.1	NT	Homo sapiens gene for cholecystinin type-A receptor, complete cds
2454	15459	28481	3.36	0.0E+00	AF106275.1	NT	Homo sapiens immunoglobulin-like transcript 1c variant 4 (ILT1c) gene, exon 6
2459	15463	28486	1.08	0.0E+00	BF345274.1	EST_HUMAN	602018058F1 NCI_CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4153670 5'
2466	15470	28494	3.44	0.0E+00	5729777	NT	Homo sapiens collagen, type XII, alpha 1 (COL12A1), mRNA
2470	15474	28497	1.27	0.0E+00	BE831003.1	EST_HUMAN	CM0-MT00333-150600-428-111 MT0033 Homo sapiens cDNA
2470	15474	28498	1.27	0.0E+00	BE831003.1	EST_HUMAN	CM0-MT00333-150600-428-111 MT0033 Homo sapiens cDNA
2475	15478	28502	1.03	0.0E+00	U13666.1	NT	Human G protein-coupled receptor (GPR1) gene, complete cds
2475	15478	28503	1.03	0.0E+00	U13666.1	NT	Human G protein-coupled receptor (GPR1) gene, complete cds
2476	15480	28504	3.72	0.0E+00	BF569144.1	EST_HUMAN	602184558F1 NIH_MGC_42 Homo sapiens cDNA clone IMAGE:4300383 3'
2486	15490	28514	2.12	0.0E+00	AW469922.1	EST_HUMAN	ha04h04.x1 NCI_CGAP_Kid2 Homo sapiens cDNA clone IMAGE:2872759 3'
2488	15492	28515	3.03	0.0E+00	AW501010.1	EST_HUMAN	UI-HF-BPOp-els-c-07-0-UI.1 NIH_MGC_51 Homo sapiens cDNA clone IMAGE:3072780 5'
2513	15516		2.54	0.0E+00	AW813853.1	EST_HUMAN	RC3-ST0197-300300-016-c04 ST0197 Homo sapiens cDNA
2517	15520	28543	11.9	0.0E+00	BE795542.1	EST_HUMAN	601592530F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3946518 5'
2518	15521	28544	1.43	0.0E+00	BF509482.1	EST_HUMAN	UI-HF-BI4-acc-b-08-0-UI.s1 NCI_CGAP_Sub88 Homo sapiens cDNA clone IMAGE:3086535 3'
2521	15524	28546	2.26	0.0E+00	Z32684.2	NT	Homo sapiens mRNA for membrane transport protein (XK gene)
2523	15526		4.58	0.0E+00	5453871	NT	Homo sapiens platelet-derived growth factor receptor-like (PDGFRL) mRNA
2526	15529	28550	3.56	0.0E+00	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
2527	15530	28551	2.51	0.0E+00	U93239.1	NT	Human Sec62 (Sec62) mRNA, complete cds
2533	15536	28557	1.5	0.0E+00	BE866490.1	EST_HUMAN	60150821F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3909866 5'
2538	15540	28563	6.2	0.0E+00	BE875511.1	EST_HUMAN	60148924F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3891371 5'
2538	15540	28564	6.2	0.0E+00	BE875511.1	EST_HUMAN	60148924F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3891371 5'
2539	15541	28565	1.07	0.0E+00	AF114027.1	EST_HUMAN	AF114027 Homo sapiens lung fetus Homo sapiens cDNA clone ESF6
2541	15543	28568	1.11	0.0E+00	AF245505.1	NT	Homo sapiens adican mRNA, complete cds
2558	15560	28576	1.25	0.0E+00	BE836921.1	EST_HUMAN	601064738F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3451161 5'
2563	15564	28583	3.18	0.0E+00	AU143277.1	EST_HUMAN	AU143277 Y79AA1 Homo sapiens cDNA clone Y79AA1001673 5'
2563	15564	28584	3.18	0.0E+00	AU143277.1	EST_HUMAN	AU143277 Y79AA1 Homo sapiens cDNA clone Y79AA1001673 5'
2564	15565	28585	1.51	0.0E+00	BE292896.1	EST_HUMAN	601105312F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2887955 5'
2564	15565	28586	1.51	0.0E+00	BE292896.1	EST_HUMAN	601105312F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2887955 5'
2565	15566	28587	1.4	0.0E+00	BF223041.1	EST_HUMAN	7q27h12.x1 NCI_CGAP_G06 Homo sapiens cDNA clone IMAGE: 3' similar to TR:O00246 O00246 HYPOTHETICAL 9.3 KD PROTEIN

Table 4

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2568	15569	28589	8.56	0.0E+00	AF245505.1	NT	Homo sapiens adiccan mRNA, complete cds
2589	15590	28607	1.03	0.0E+00	BE298813.1	EST_HUMAN	601173631F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3529159 5'
2606	15627	28629	2.15	0.0E+00	AB037838.1	NT	Homo sapiens mRNA for KIAA1415 protein, partial cds
2608	15627	28630	2.15	0.0E+00	AB037838.1	NT	Homo sapiens mRNA for KIAA1415 protein, partial cds
2607	15608		2.35	0.0E+00	BF513835.1	EST_HUMAN	U1-H-BW1-amp-1-12-0-J1.s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3070631 3'
2611	15610	28634	1.01	0.0E+00	BF672818.1	EST_HUMAN	602152633F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:423612 5'
2620	15618	28642	1.11	0.0E+00	AI571737.1	EST_HUMAN	hm19p08.x1 NCI_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2168055 3' similar to gb.L20977 CALCIUM-TRANSPORTING ATPASE PLASMA MEMBRANE, BRAIN ISOFORM 2 (HUMAN); Homo sapiens TATA box binding protein (TBP)-associated factor, RNA polymerase II, 1, 28KD (TAF21) mRNA
2621	15619	28643	2.57	0.0E+00	5032150	NT	Homo sapiens mRNA for KIAA1438 protein, partial cds
2623	15622	28647	7.78	0.0E+00	AB037859.1	NT	Homo sapiens mRNA for KIAA1438 protein, partial cds
2624	15623	28648	1.25	0.0E+00	BE785445.1	EST_HUMAN	601590108F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3844304 5'
2624	15623	28649	1.25	0.0E+00	BE785445.1	EST_HUMAN	601590108F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3844304 5'
2634	15633		8.15	0.0E+00	BE792472.1	EST_HUMAN	601584930F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3839222 5'
2642	15640	28664	2.66	0.0E+00	4504698	NT	Homo sapiens IMP (inosine monophosphate) dehydrogenase 1 (IMPDH1) mRNA
2653	15650		1.32	0.0E+00	U78027.1	NT	Homo sapiens Bruton's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein (L44L) and FTP3 (FTP3) genes, complete cds
2654	15651	28672	5.09	0.0E+00	AF173227.1	NT	Homo sapiens guanylate cyclase-activating protein 2 (GUCA1B) gene, exon 1
2658	15655	28673	110.09	0.0E+00	AB011108.1	NT	Homo sapiens mRNA for KIAA0536 protein, partial cds
2661	15658	28676	1.22	0.0E+00	AU133385.1	EST_HUMAN	AU133385 NT2RP4 Homo sapiens cDNA clone NT2RP4001984 5'
2662	15659	28677	0.92	0.0E+00	IM69225.1	NT	Human bullous pemphigoid antigen (BPAG1) mRNA, complete cds
2664	15661	28679	1.28	0.0E+00	AU130403.1	EST_HUMAN	AU130403 NT2RP3 Homo sapiens cDNA clone NT2RP3000779 5'
2664	15661	28680	1.28	0.0E+00	AU130403.1	EST_HUMAN	AU130403 NT2RP3 Homo sapiens cDNA clone NT2RP3000779 5'
2667	15664	28683	2.07	0.0E+00	AW887015.1	EST_HUMAN	RC1-OT0086-220300-011-d07 OT0086 Homo sapiens cDNA
2670	15687	28686	1.12	0.0E+00	BF000018.1	EST_HUMAN	7h15R05.x1 NCI_CGAP_Co16 Homo sapiens cDNA clone IMAGE:3316089 3'
2671	15688	28687	5.39	0.0E+00	BE383165.1	EST_HUMAN	601268714F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:3628923 5'
2672	15669		3.03	0.0E+00	BE531263.1	EST_HUMAN	601278373F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3610287 5'
2709	15703	28719	0.92	0.0E+00	AB037732.1	NT	Homo sapiens mRNA for KIAA1311 protein, partial cds
2732	15728		11.44	0.0E+00	AA318723.1	EST_HUMAN	EST188414 HCC cell line (metastasis to liver in mouse) II Homo sapiens cDNA 5' end similar to ribosomal protein L29
2733	15727	28741	1.11	0.0E+00	BE784884.1	EST_HUMAN	60158925F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943591 5'
2739	15733	28749	3.65	0.0E+00	U36253.1	NT	Human beta-primin-adaptin (BAM22) gene, exon 5
2740	15734	28750	1.05	0.0E+00	7869517	NT	Homo sapiens neuroguin 1 (NRG1), transcript variant SMD5, mRNA
2741	15735	28751	1.6	0.0E+00	AF110763.1	NT	Homo sapiens skeletal muscle LIM-protein 1 (FHL1) gene, complete cds

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2748	15741	28758	9.77	0.0E+00	BE796376.1	EST_HUMAN	601591901F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3945683 5'
2751	15903	28762	13.57	0.0E+00	BE563433.1	EST_HUMAN	601335485F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3680564 5'
2752	15744		1.22	0.0E+00	AV721647.1	EST_HUMAN	AV721647 HTB Homo sapiens cDNA clone HTBBYE09 5'
2754	15746	28765	2.9	0.0E+00	5174486	NT	Homo sapiens spermatogenesis associated PD1 (KIAA0757) mRNA
2754	15746	28766	2.9	0.0E+00	5174488	NT	Homo sapiens spermatogenesis associated PD1 (KIAA0757) mRNA
2755	15747	28767	0.98	0.0E+00	8923441	NT	Homo sapiens hypothetical protein FLJ20477 (FLJ20477), mRNA
2755	15747	28768	0.98	0.0E+00	8923441	NT	Homo sapiens hypothetical protein FLJ20477 (FLJ20477), mRNA
2756	15748	28769	3.23	0.0E+00	AF290195.1	NT	Homo sapiens hypertension-related calcium-regulated gene mRNA, complete cds
2757	15749		48.84	0.0E+00	AV651066.1	EST_HUMAN	AV651066 GLC Homo sapiens cDNA clone GLCCLD07 3'
2758	15750	28770	6.5	0.0E+00	BF377897.1	EST_HUMAN	GM1-TN0141-250900-439-b08 TN0141 Homo sapiens cDNA
2758	15750	28771	6.5	0.0E+00	BF377897.1	EST_HUMAN	GM1-TN0141-250900-439-b08 TN0141 Homo sapiens cDNA
2762	15754	28774	0.94	0.0E+00	4757963	NT	Homo sapiens cerebellar degeneration-related protein (34kD) (CDR1) mRNA
2762	15754	28775	0.94	0.0E+00	4757963	NT	Homo sapiens cerebellar degeneration-related protein (34kD) (CDR1) mRNA
2768	15758	28780	2.98	0.0E+00	BE747183.1	EST_HUMAN	601580903F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3929472 5'
2778	15771		1.71	0.0E+00	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
2780	15772	28792	4.09	0.0E+00	BF514110.1	EST_HUMAN	UI-H-BW1-armw-e-07-0-UJ.s1 NCI_CGAP_Sub57 Homo sapiens cDNA clone IMAGE:3071340 3'
2786	15778		1.02	0.0E+00	4503088	NT	Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA
2792	15784	28800	1.56	0.0E+00	7705275	NT	Homo sapiens angiotensin-3 (ANG-3), mRNA
2792	15784	28801	1.56	0.0E+00	7705275	NT	Homo sapiens angiotensin-3 (ANG-3), mRNA
2793	15785	28802	4.03	0.0E+00	BF677694.1	EST_HUMAN	602085579F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4249915 5'
2796	15791	28810	1.58	0.0E+00	7427522	NT	Homo sapiens protein tyrosine phosphatase, receptor type, T (PTPRT), mRNA
2803	15796	28813	15.3	0.0E+00	AV725534.1	EST_HUMAN	AV725534 HTC Homo sapiens cDNA clone HTCCCA03 5'
2803	15796	28814	15.3	0.0E+00	AV725534.1	EST_HUMAN	AV725534 HTC Homo sapiens cDNA clone HTCCCA03 5'
2805	15797		13.6	0.0E+00	AI879163.1	EST_HUMAN	au55d04.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2518663 5' similar to
2808	15800	28819	2.83	0.0E+00	BF530661.1	EST_HUMAN	SW/R13A_HUMAN P40429 60S RIBOSOMAL PROTEIN L13A ;
2809	15801	28820	3.53	0.0E+00	BE872788.1	EST_HUMAN	601450912F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4214679 5'
2811	15803	28821	1.98	0.0E+00	AI131494.1	EST_HUMAN	601450912F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:3854642 5'
2811	15803	28822	1.98	0.0E+00	AI131494.1	EST_HUMAN	AU131494 NT2RP3 Homo sapiens cDNA clone NT2RP3002672 5'
2812	15804	28823	34.94	0.0E+00	BE3300344.1	EST_HUMAN	AU131494 NT2RP3 Homo sapiens cDNA clone NT2RP3002672 5'
2812	15804	28824	34.94	0.0E+00	BE3300344.1	EST_HUMAN	600944794F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2960806 5'
2817	13290	28216	7.12	0.0E+00	S76830.1	NT	glycoprotein D-Duffy group antigen [human, blood, Genomic DNA, 3088 nt]
2820	15811		0.75	0.0E+00	AB033281.1	NT	Homo sapiens BTROP2 mRNA for F-box and WD-repeats protein isoform C, complete cds
2826	13796	26735	1.6	0.0E+00	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2828	13798	28738	1.6	0.0E+00	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
2830	14086	27037	3.41	0.0E+00	4503202	NT	Homo sapiens cytochrome P450, subfamily 1 (dioxin-inducible), polypeptide 1 (glaucoma 3, primary infantile) (CYP1B1) mRNA
2830	14086	27038	3.41	0.0E+00	4503202	NT	Homo sapiens cytochrome P450, subfamily 1 (dioxin-inducible), polypeptide 1 (glaucoma 3, primary infantile) (CYP1B1) mRNA
2847	15907	28832	2.28	0.0E+00	X85980.1	NT	H. sapiens serine hydroxymethyltransferase pseudogene
2848	15908		3.02	0.0E+00	AF068624.1	NT	Homo sapiens 5-aminolevulinic acid synthase 2 (ALAS2) gene, complete cds
2850	15910		1.9	0.0E+00	AB040960.1	NT	Homo sapiens mRNA for KIAA1527 protein, partial cds
2852	15912	28835	1.07	0.0E+00	4502568	NT	Homo sapiens caspase 10, apoptosis-related cysteine protease (CASP10) mRNA
2852	15912	28836	1.07	0.0E+00	4502568	NT	Homo sapiens caspase 10, apoptosis-related cysteine protease (CASP10) mRNA
2857	15917		0.98	0.0E+00	AJ238852.1	NT	Homo sapiens partial rpl3 gene for ribosomal protein L3, U82 snRNA, U83a snRNA and U83b snRNA genes
2858	15918	28839	3.25	0.0E+00	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
2862	15922	28842	1.6	0.0E+00	M80902.1	NT	Human AHNK nucleoprotein mRNA, 5' end
2865	15925	28844	0.96	0.0E+00	BE154504.1	EST_HUMAN	PMO-HT0343-281289-003-e02 HT0343 Homo sapiens cDNA
2865	15925	28845	0.96	0.0E+00	BE154504.1	EST_HUMAN	PMO-HT0343-281289-003-e02 HT0343 Homo sapiens cDNA
2867	15927		1.48	0.0E+00	X73428.1	NT	H. sapiens l33 gene for HLH type transcription factor
2868	15928		3.61	0.0E+00	AL163288.2	NT	Homo sapiens chromosome 21 segment HS21C068
2870	15930	28847	1	0.0E+00	M98478.1	NT	Human transglutaminase mRNA, complete cds
2874	15933	28850	25.84	0.0E+00	D50657.1	NT	Homo sapiens gamma-cytoplasmic actin (ACTGP3) pseudogene
2874	15933	28851	25.84	0.0E+00	D50657.1	NT	Homo sapiens gamma-cytoplasmic actin (ACTGP3) pseudogene
2877	15938	28854	2.34	0.0E+00	AL098857.1	NT	Novel human mRNA from chromosome 1, which has similarities to BAT2 genes
2878	15937		5.17	0.0E+00	Y10698.1	NT	H. sapiens mRNA for nuclear DNA helicase II
2879	15938		1.17	0.0E+00	AF152303.1	NT	Homo sapiens protocadherin alpha C1 (PCDH-alpha-C1) mRNA, complete cds
2880	15939	28855	61.62	0.0E+00	4503470	NT	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA
2880	15939	28856	61.62	0.0E+00	4503470	NT	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA
2891	15950	28866	2.45	0.0E+00	4507280	NT	Homo sapiens cerin/threonine kinase 9 (STK9) mRNA
2894	15953	28870	0.91	0.0E+00	AL047599.1	EST_HUMAN	DKFZ586G0621_r1 586 (synonym: hute1) Homo sapiens cDNA clone DKFZp586G0621
2895	15954	28871	1.07	0.0E+00		NT	Homo sapiens KIAA0054 gene product; Helicase (KIAA0054), mRNA
2895	15954	28872	1.07	0.0E+00	7661883	NT	Homo sapiens KIAA0054 gene product; Helicase (KIAA0054), mRNA
2896	15955		2.07	0.0E+00	4503098	NT	Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA
2898	15957	28874	5.43	0.0E+00	BE081896.1	EST_HUMAN	QV2-BT0636-130400-138-h03 BT0636 Homo sapiens cDNA
2898	15957	28875	5.43	0.0E+00	BE081896.1	EST_HUMAN	QV2-BT0636-130400-138-h03 BT0636 Homo sapiens cDNA
2903	15962	28883	0.63	0.0E+00	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2903	15962	28884	0.63	0.0E+00	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
2906	15965	28888	2.52	0.0E+00	AL163208.2	NT	Homo sapiens chromosome 21 segment HS21C006
2906	15965	28889	2.52	0.0E+00	AL163208.2	NT	Homo sapiens chromosome 21 segment HS21C006
2907	15966	28890	0.94	0.0E+00	AA215579.1	EST_HUMAN	z998b11.s1 NCI_OGAP_GCB1 Homo sapiens cDNA clone IMAGE:683517 3' similar to contains Alu repetitive element
2915	15973		4.07	0.0E+00	Y19210.1	NT	Homo sapiens hHb5 gene for hair keratin, exons 1 to 9
2918	15976	28900	1.17	0.0E+00	4758279	NT	Homo sapiens EpiA4 (EPHA4) mRNA
2919	15977	28901	23.04	0.0E+00	4503470	NT	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA
2920	15978	28902	0.92	0.0E+00	AI561002.1	EST_HUMAN	U18d07.x1 NCI_OGAP_Brm25 Homo sapiens cDNA clone IMAGE:2167981 3' similar to TR:O16247
2920	15978	28903	0.92	0.0E+00	AI561002.1	EST_HUMAN	U18d07.x1 NCI_OGAP_Brm25 Homo sapiens cDNA clone IMAGE:2167981 3' similar to TR:O16247
2922	15980	28905	0.97	0.0E+00	AF152338.1	NT	O16247 F44E7.2 PROTEIN ;
2931	15989	28910	1.26	0.0E+00	AI209084.1	EST_HUMAN	Homo sapiens protocadherin gamma C4 (PCDH-gamma-C4) mRNA, complete cds
2939	15997	28918	2.92	0.0E+00	AB033063.1	NT	qg49f04.x1 Scores_testis_NHT Homo sapiens cDNA clone IMAGE:1838527 3' similar to SW:CB20_HUMAN P52298 20 KD NUCLEAR CAP BINDING PROTEIN ;
2939	15997	28919	2.92	0.0E+00	AB033063.1	NT	Homo sapiens mRNA for KIAA1267 protein, partial cds
2940	15998	28920	4.91	0.0E+00	AB040941.1	NT	Homo sapiens mRNA for KIAA1267 protein, partial cds
2940	15998	28921	4.91	0.0E+00	AB040941.1	NT	Homo sapiens mRNA for KIAA1508 protein, partial cds
2943	16001	28924	2.56	0.0E+00	7661903	NT	Homo sapiens KIAA0100 gene product (KIAA0100), mRNA
2943	16001	28925	2.56	0.0E+00	7661903	NT	Homo sapiens KIAA0100 gene product (KIAA0100), mRNA
2944	16002	28926	2.73	0.0E+00	5174574	NT	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (trithorax (Drosophila) homolog), translocated to, 4 (MLLT4) mRNA
2944	16002	28927	2.73	0.0E+00	5174574	NT	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (trithorax (Drosophila) homolog), translocated to, 4 (MLLT4) mRNA
2956	16014	28941	2.36	0.0E+00	4505084	NT	Homo sapiens melanoma antigen, family B, 4 (MAGEB4), mRNA
2956	16014	28942	2.36	0.0E+00	4505084	NT	Homo sapiens melanoma antigen, family B, 4 (MAGEB4), mRNA
2955	16023	28948	1.71	0.0E+00	4758827	NT	Homo sapiens neurexin III (NRXN3) mRNA
2956	16024		1.03	0.0E+00	X98494.1	NT	H. sapiens mRNA for M phase phosphoprotein 10
2971	16028	28952	7.63	0.0E+00	AF106275.1	NT	Homo sapiens immunoglobulin-like transcript 1c variant 4 (ILT1c) gene, exon 6
2985	16043		1.1	0.0E+00	AI149880.1	EST_HUMAN	qf43f09.x1 Scores_testis_NHT Homo sapiens cDNA clone IMAGE:1752809 3'
2994	16052	28973	0.97	0.0E+00	4506118	NT	Homo sapiens prospero-related homeobox 1 (PROX1) mRNA
2995	16053	28974	2.71	0.0E+00	AB004884.1	NT	Homo sapiens mRNA for PKU-alpha, partial cds
3007	16065	28984	1.51	0.0E+00	7662273	NT	Homo sapiens KIAA0737 gene product (KIAA0737), mRNA

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3008	16066	28985	1.96	0.0E+00	5728755	NT	Homo sapiens calcium channel, voltage-dependent, gamma subunit 3 (CA2NG3), mRNA
3008	16066	28986	1.96	0.0E+00	5728755	NT	Homo sapiens calcium channel, voltage-dependent, gamma subunit 3 (CA2NG3), mRNA
3016	16074	28984	0.95	0.0E+00	AF114488.1	NT	Homo sapiens intersectin short isoform (ITSN), mRNA, complete cds
3016	16074	28985	0.95	0.0E+00	AF114488.1	NT	Homo sapiens intersectin short isoform (ITSN), mRNA, complete cds
3038	16096		0.74	0.0E+00	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C048
3040	16098	29014	1.28	0.0E+00	M74099.1	NT	Human displacement protein (GCAAT) mRNA
3050	16107	29021	0.88	0.0E+00	4506882	NT	Homo sapiens semenogelin I (SEMG1) mRNA
3052	16108	29023	0.76	0.0E+00	AW976266.1	EST_HUMAN	EST388375 MAGE sequences, MAGN Homo sapiens cDNA
3057	16114		4.37	0.0E+00	AF195953.1	NT	Homo sapiens membrane-bound aminopeptidase P (XNPEP2) gene, complete cds
3060	16117	29031	15.24	0.0E+00	5578469	NT	Homo sapiens heat shock 70KD protein 1 (HSPA1A), mRNA
3060	16117	29032	15.24	0.0E+00	5578469	NT	Homo sapiens heat shock 70KD protein 1 (HSPA1A), mRNA
3062	16119		6.14	0.0E+00	AL359403.1	NT	Isaform 2 of a novel human mRNA from chromosome 22
3066	16123	29036	2.48	0.0E+00	AF017433.1	NT	Homo sapiens putative transcription factor CR53 (CR53) mRNA, partial cds
3069	16128		1.66	0.0E+00	AF196779.1	NT	Homo sapiens transcription factor IGHM enhancer 3, JM11 protein, JM5 protein, T54 protein, JM10 protein, A4 differentiation-dependent protein, triple LIM domain protein 6, and synaptophysin genes, complete cds; and L-type calcium channel alpha
3084	16141	29052	0.73	0.0E+00	AF170492.1	NT	Homo sapiens chloride channel CLC4 (CLC4) mRNA, complete cds
3082	16150	29064	12.69	0.0E+00	X03529.1	NT	Human gamma line gene 18.1 for Ig lambda L-chain C region (IgL-C16.1)
3098	16155		1.77	0.0E+00	AF198355.1	NT	Homo sapiens F-box protein FBL5 (FBL5) mRNA, complete cds
3102	16159	29071	1.71	0.0E+00	AF084599.1	NT	Homo sapiens melanoma-associated antigen (MAGE-C1) gene, complete cds
3123	16180	29090	4.2	0.0E+00	AF265208.1	NT	Homo sapiens SWI-SNF complex protein p270 mRNA, partial cds
3124	16181	29091	4.68	0.0E+00	AF149773.1	NT	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
3129	16186	29095	2.83	0.0E+00	7662139	NT	Homo sapiens KIAA0489 gene product (KIAA0489), mRNA
3130	16187	29096	1.56	0.0E+00	AF042075.1	NT	Homo sapiens olfactory receptor-like protein (OLFR 42B) gene, OLFR 42B-9110 allele, partial cds
3157	16213	29128	4.32	0.0E+00	4826783	NT	Homo sapiens potassium voltage-gated channel, Shab-related subfamily, member 1 (KCNB1) mRNA
3165	16220	29135	22.34	0.0E+00	L20841.1	NT	Human ferritin heavy chain mRNA, complete cds
3168	16223	29138	1.3	0.0E+00	AB011121.1	NT	Homo sapiens mRNA for KIAA0549 protein, partial cds
3168	16223	29139	1.3	0.0E+00	AB011121.1	NT	Homo sapiens mRNA for KIAA0549 protein, partial cds
3174	16229	29145	21.23	0.0E+00	T94870.1	EST_HUMAN	ye32103.s1 Strati gene lung (#937210) Homo sapiens cDNA clone IMAGE:119453 3' similar to SP-S29539
3190	16245	29163	1.13	0.0E+00	BF243336.1	EST_HUMAN	S29539 BASIC PROTEIN, 23K - ;
3192	16247	29164	1.11	0.0E+00	A1968086.1	EST_HUMAN	601878507F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:4107433 5'
3197	16252	29171	4.28	0.0E+00	X98922.1	NT	wu12h10.x1 NCI CGAP_G08 Homo sapiens cDNA clone IMAGE:2516803 3'
							H.sapiens mRNA for gamma-glutamyltransferase

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3197	16262	29172	4.28	0.0E+00	X08922.1	NT	H.sapiens mRNA for gamma-glutamyltransferase
3207	16262	29183	1.18	0.0E+00	4758827	NT	Homo sapiens neuroxin III (NRXN3) mRNA
3207	16262	29184	1.16	0.0E+00	4758827	NT	Homo sapiens neuroxin III (NRXN3) mRNA
3213	16268	29191	9.61	0.0E+00	4504658	NT	Homo sapiens interleukin 1 receptor, type I (IL1R1) mRNA
3230	16285	29208	3.9	0.0E+00	M28699.1	NT	Homo sapiens nucleolar phosphoprotein B23 (NPM1) mRNA, complete cds
3234	16289	29211	1.55	0.0E+00	4502098	NT	Homo sapiens slute carrier family 25 (mitochondrial carrier, adenine nucleotide translocator), member 5 (SLC25A5), nuclear gene encoding mitochondrial protein, mRNA
3240	16295	29219	0.98	0.0E+00	4758055	NT	Homo sapiens CREB binding protein (Rubinstein-Taybi syndrome) (CREBBP) mRNA
3240	16295	29220	0.98	0.0E+00	4758055	NT	Homo sapiens CREB binding protein (Rubinstein-Taybi syndrome) (CREBBP) mRNA
3242	16297	29221	3.35	0.0E+00	AA774783.1	EST_HUMAN	ae87b11.s1 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:371133 3'
3250	16305	29229	3.58	0.0E+00	AF286598.1	NT	Homo sapiens angiotensin binding protein 1 mRNA, complete cds
3250	16305	29230	3.58	0.0E+00	AF286598.1	NT	Homo sapiens angiotensin binding protein 1 mRNA, complete cds
3261	16315	29235	1.15	0.0E+00	4557590	NT	Homo sapiens fibrillin 1 (Marfan syndrome) (FBN1) mRNA
3267	16321	29243	1.02	0.0E+00	4507720	NT	Homo sapiens filin (TTN) mRNA
3275	16328	29250	1.04	0.0E+00	AF010413.1	NT	Homo sapiens HLA class III region containing tenascin X (tenascin-X) gene, partial cds; cytochrome P 450 21-hydroxylase (CYP21B), complement component C4 (C4B) G11, helicase (SKI2W), RD, complement factor B (Bf), and complement component C2 (C2) genes;>
3278	16332	29253	4.45	0.0E+00	AF055084.1	NT	Homo sapiens very large G-protein coupled receptor-1 (VLGR1) mRNA, complete cds
3288	18312	29261	2.4	0.0E+00	4502014	NT	Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP1), mRNA
3288	18312	29262	2.4	0.0E+00	4502014	NT	Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP1), mRNA
3303	16356	29275	2.99	0.0E+00	AF265208.1	NT	Homo sapiens SWI-SNF complex protein p270 mRNA, partial cds
3304	16357	29276	0.86	0.0E+00	8923624	NT	Homo sapiens hypothetical protein FLJ20695 (FLJ20695), mRNA
3335	16386	29307	2.87	0.0E+00	A1589294.1	EST_HUMAN	t68f08.x2 NCI_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2222535 3' similar to SW:RL11_RAT
3343	16394	29315	2.44	0.0E+00	AF128893.1	NT	P25121 60S RIBOSOMAL PROTEIN L11, contains Alu repetitive element
3343	16394	29316	2.44	0.0E+00	AF128893.1	NT	Homo sapiens telomerase reverse transcriptase (TERT) gene, exons 1-6
3344	16395	29317	0.85	0.0E+00	7657213	NT	Homo sapiens telomerase reverse transcriptase (TERT) gene, exons 1-8
3344	16395	29318	0.85	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
3346	16397	29319	1.11	0.0E+00	4502582	NT	Homo sapiens caspase 8, apoptosis-related cysteine protease (CASP8) mRNA
3346	16397	29320	1.11	0.0E+00	4502582	NT	Homo sapiens caspase 8, apoptosis-related cysteine protease (CASP8) mRNA
3349	16400	29323	10.77	0.0E+00	AF111163.1	NT	Homo sapiens pyrin (MEFV) gene, complete cds
3351	16402	29324	1.09	0.0E+00	AB040940.1	NT	Homo sapiens mRNA for KIAA1507 protein, partial cds
3358	16408	29330	0.85	0.0E+00	BE779039.1	EST_HUMAN	601464995F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3868248 5'

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3369	16419	29344	0.79	0.0E+00	AB32569.1	EST_HUMAN	wb10f04.x1 NCL_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2305279 3' similar to TR:Q91928 Q91929 ZINC FINGER PROTEIN.
3407	16456	29379	4.18	0.0E+00	AU123684.1	EST_HUMAN	AU123684 NT2RM2 Homo sapiens cDNA clone NT2RM2000735 5'
3414	16462	29382	1.15	0.0E+00	7363436	NT	Homo sapiens olfactory receptor, family 10, subfamily C, member 1 (OR10C1), mRNA
3414	16462	29383	1.15	0.0E+00	7363436	NT	Homo sapiens olfactory receptor, family 10, subfamily C, member 1 (OR10C1), mRNA
3417	16465	29385	6.29	0.0E+00	7706239	NT	Homo sapiens neuroblastoma-amplified protein (LOC51594), mRNA
3418	16466	29386	1.51	0.0E+00	AF211189.1	NT	Homo sapiens T-type calcium channel alpha1 subunit Alpha1a isoform (CACNA1I) mRNA, complete cds
3436	16483	29401	1.13	0.0E+00	7662401	NT	Homo sapiens KIAA0952 protein (KIAA0952), mRNA
3436	16483	29402	1.13	0.0E+00	7662401	NT	Homo sapiens KIAA0952 protein (KIAA0952), mRNA
3437	16484	29403	1.05	0.0E+00	4502398	NT	Homo sapiens beaded filament structural protein 1, filensin (BFSP1) mRNA
3441	16488	29406	2.77	0.0E+00	5803087	NT	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 2 (LILRA2), mRNA
3450	15735	28751	1.38	0.0E+00	AF110763.1	NT	Homo sapiens skeletal muscle LIM-protein 1 (FHL1) gene, complete cds
3455	16501	29419	2.15	0.0E+00	7657038	NT	Homo sapiens death receptor 6 (DR6), mRNA
3456	16502	29420	1.05	0.0E+00	5453965	NT	Homo sapiens protein kinase, AMP-activated, alpha 2 catalytic subunit (PRKAA2) mRNA
3456	16502	29421	1.05	0.0E+00	5453965	NT	Homo sapiens protein kinase, AMP-activated, alpha 2 catalytic subunit (PRKAA2) mRNA
3459	16505	29425	1	0.0E+00	AJ27276.1	NT	Homo sapiens mRNA for rapa-2 (rapa gene)
3459	16505	29426	1	0.0E+00	AJ27276.1	NT	Homo sapiens mRNA for rapa-2 (rapa gene)
3460	16508	29427	5.55	0.0E+00	K02380.1	NT	Bacteriophage P1 replication region including repA, parA, and perB genes and incA, incB, and incC
3463	16509	29430	1.31	0.0E+00	7427522	NT	Incompetibility determinants
3469	16515	29435	5.12	0.0E+00	AB35159.1	EST_HUMAN	Homo sapiens protein tyrosine phosphatase, receptor type, T (PTPRT), mRNA
3469	16515	29436	5.12	0.0E+00	AB35159.1	EST_HUMAN	wp14d10.x1 NCL_CGAP_Lu119 Homo sapiens cDNA clone IMAGE:2464819 3' similar to TR:O73634 O73634 NEURAL CELL ADHESION MOLECULE.
3473	16519	29441	1.66	0.0E+00	AJ278120.1	NT	NEURAL CELL ADHESION MOLECULE.
3478	16525	29449	6.24	0.0E+00	6552332	NT	Homo sapiens mRNA for putative ankyrin-repeat containing protein (ORF1)
3479	16525	29450	6.24	0.0E+00	6552332	NT	Homo sapiens v-fos FBJ murine osteosarcoma viral oncogene homolog (FOS), mRNA
3485	16531	29456	1.06	0.0E+00	M14123.1	NT	Homo sapiens v-fos FBJ murine osteosarcoma viral oncogene homolog (FOS), mRNA
3490	16536	29461	6.79	0.0E+00	U43293.1	NT	Human endogenous retrovirus HERV-K10
3497	16544	29469	1.85	0.0E+00	AF045452.1	NT	Human MDS1A (AML1/MDS1 fusion) mRNA, partial cds
3497	16544	29470	1.85	0.0E+00	AF045452.1	NT	Homo sapiens cell-line KG1 transcriptional regulatory protein p54 mRNA, complete cds
3504	16551	29478	0.99	0.0E+00	AF231922.1	NT	Homo sapiens cell-line KG1 transcriptional regulatory protein p54 mRNA, complete cds Homo sapiens chromosome 21 unknown mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3516	16562	29486	2.29	0.0E+00	BE304791.1	EST_HUMAN	601143853F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:3051373 5'
3516	16562	29487	2.29	0.0E+00	BE304791.1	EST_HUMAN	601143853F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:3051373 5'
3519	16565	29490	1.07	0.0E+00	4826795	NT	Homo sapiens potassium voltage-gated channel, Isk-related family, member 2 (KCNK2) mRNA
3521	16567	29491	1.24	0.0E+00	O14867	SWISSPROT	TRANSCRIPTION REGULATOR PROTEIN BACH1 (BTB AND CNC HOMOLOG 1) (HA2303)
3526	16572	29495	0.88	0.0E+00	A184007.1	EST_HUMAN	le35g12.x1 Soares NIH-MPU_S1 Homo sapiens cDNA clone IMAGE:2088742 3' similar to TR:000498
3529	16575	29498	1.08	0.0E+00	M10976.1	NT	Human endogenous retroviral DNA (4-1), complete retroviral segment
3543	16589	29513	0.92	0.0E+00	AB032979.1	NT	Homo sapiens mRNA for KIAA1153 protein, partial cds
3543	16589	29514	0.92	0.0E+00	AB032979.1	NT	Homo sapiens mRNA for KIAA1153 protein, partial cds
3551	16597	29522	1.38	0.0E+00	AV701869.1	EST_HUMAN	AV701869 ADB Homo sapiens cDNA clone ADBDAH06 5'
3552	16598	29523	0.92	0.0E+00	4506884	NT	Homo sapiens semenogelin II (SEMG2) mRNA
3554	16600		1.03	0.0E+00	AF078868.1	NT	Homo sapiens homologous yeast-44.2 protein mRNA, complete cds
3563	16609	29531	0.82	0.0E+00	AL133204.1	NT	Novel human gene mapping to chromosome X
3567	16612	29534	1.21	0.0E+00	AB040909.1	NT	Homo sapiens mRNA for KIAA1476 protein, partial cds
3578	16623	29544	1.33	0.0E+00	8923087	NT	Homo sapiens hypothetical protein FLJ20080 (FLJ20080), mRNA
3588	16633	29551	1.16	0.0E+00	6997248	NT	Homo sapiens sal (Drosophila)-like 1 (SALL1), mRNA
3588	16633	29552	1.16	0.0E+00	6997248	NT	Homo sapiens sal (Drosophila)-like 1 (SALL1), mRNA
3590	16635	29555	1.06	0.0E+00	6325463	NT	Homo sapiens butyrophilin, subfamily 3, member A3 (BTN3A3), mRNA
3595	16640		4.69	0.0E+00	AW862217.1	EST_HUMAN	QV0-CT0225-230300-169-e01 CT0225 Homo sapiens cDNA
3602	16647		1.35	0.0E+00	AF118948.1	NT	Homo sapiens gamma-glutamylcysteine synthetase (GLCLC) gene, partial cds
3603	16648	29584	10.61	0.0E+00	BF676393.1	EST_HUMAN	602084583F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4248596 5'
3617	16661	29579	1.04	0.0E+00	AW937977.1	EST_HUMAN	QV0-DT0047-170200-123-g01 DT0047 Homo sapiens cDNA
3629	16672	29585	1.46	0.0E+00	BF672054.1	EST_HUMAN	602152486F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4293645 5'
3629	16672	29586	1.46	0.0E+00	BF672054.1	EST_HUMAN	602152486F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4293645 5'
3630	16673		0.84	0.0E+00	4826967	NT	Homo sapiens retinoblastoma-binding protein 2 (RBBP2) mRNA
3632	16675	29588	0.84	0.0E+00	AW664693.1	EST_HUMAN	hi84g01.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2979024 3'
3632	16675	29589	0.84	0.0E+00	AW664693.1	EST_HUMAN	hi84g01.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2979024 3'
3636	16679	29593	0.83	0.0E+00	4826763	NT	Homo sapiens heparan sulfate (glucosamine) 3-O-sulfotransferase 1 (HS3ST1) mRNA
3638	16681	29596	1.03	0.0E+00	7662319	NT	Homo sapiens KIAA0806 gene product (KIAA0806), mRNA
3646	16689	29604	0.67	0.0E+00	4557752	NT	Homo sapiens midline 1 (Opitz/BBB syndrome) (MID1) mRNA
3646	16689	29605	0.67	0.0E+00	4557752	NT	Homo sapiens midline 1 (Opitz/BBB syndrome) (MID1) mRNA
3661	16704	29618	3.11	0.0E+00	D87327.1	NT	Homo sapiens mRNA for G protein-coupled inward rectifier potassium channel, complete cds
3664	16707		10.78	0.0E+00	7669491	NT	Homo sapiens glyceraldehyde-3-phosphate dehydrogenase (GAPD), mRNA
3681	16724	29637	16.15	0.0E+00	AB026542.1	NT	Homo sapiens WAVE2 mRNA for WASP-family protein, complete cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3685	16728	29639	4.02	0.0E+00	AF124250.1	NT	Homo sapiens SH2-containing protein Nsp2 mRNA, complete cds
3685	16728	29640	4.02	0.0E+00	AF124250.1	NT	Homo sapiens SH2-containing protein Nsp2 mRNA, complete cds
3692	16735	29647	1.6	0.0E+00	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
3692	16735	29648	1.6	0.0E+00	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
3695	16738	29651	1.34	0.0E+00	AW851714.1	EST_HUMAN	MR2-CT0222-281099-005-e05 CT0222 Homo sapiens cDNA
3697	16740	29653	2.88	0.0E+00	5729928	NT	Homo sapiens matrix metalloproteinase 24 (membrane-inserted) (MMP24), mRNA
3698	16742	29655	1.37	0.0E+00	AB018339.1	NT	Homo sapiens mRNA for KIAA0796 protein, partial cds
3701	16744	29657	0.72	0.0E+00	O14867	SWISSPROT	TRANSCRIPTION REGULATOR PROTEIN BACH1 (BTB AND CNC HOMOLOG 1) (HA2303)
3703	16746	29659	1.45	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
3703	16746	29660	1.45	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
3705	16748	29662	1	0.0E+00	7662237	NT	Homo sapiens KIAA0870 protein/echinus (KIAA0870), mRNA
3705	16748	29663	1	0.0E+00	7662237	NT	Homo sapiens KIAA0870 protein/echinus (KIAA0870), mRNA
3718	16762	29672	4.6	0.0E+00	AW298134.1	EST_HUMAN	UI-H-BWO-gls-e-12-0-UI.s1 NCI_CGAP_Sub6 Homo sapiens cDNA clone IMAGE:2733022 3'
3719	16762	29673	4.6	0.0E+00	AW298134.1	EST_HUMAN	UI-H-BWO-gls-e-12-0-UI.s1 NCI_CGAP_Sub6 Homo sapiens cDNA clone IMAGE:2733022 3'
3742	16784	29696	1.47	0.0E+00	AB004630.1	NT	Human gene for Type XIX collagen $\alpha 1$ chain, exon 6
3743	16785	29697	1.06	0.0E+00	AA463659.1	EST_HUMAN	aa08g01.r1 Soares_NhhMPu_S1 Homo sapiens cDNA clone IMAGE:812498 5' similar to SW:KRB4_SHEEP P02445 KERATIN, HIGH-SULFUR MATRIX PROTEIN, IIIB4, [1];
3747	16789	29701	0.76	0.0E+00	AB020710.1	NT	Homo sapiens mRNA for KIAA0903 protein, partial cds
3750	16792	29703	3.92	0.0E+00	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
3760	16801	29713	0.77	0.0E+00	AB037835.1	NT	Homo sapiens mRNA for KIAA1414 protein, partial cds
3772	16814	29723	5.64	0.0E+00	7662183	NT	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
3775	16817	29726	19.76	0.0E+00	4506718	NT	Homo sapiens ribosomal protein S2 (RPS2) mRNA
3781	16822	29728	0.97	0.0E+00	7657065	NT	Homo sapiens v-ets avian erythroblastosis virus E26 oncogene related (ERG), mRNA
3781	16822	29730	0.97	0.0E+00	7657065	NT	Homo sapiens v-ets avian erythroblastosis virus E26 oncogene related (ERG), mRNA
3784	16826	29733	0.92	0.0E+00	4505594	NT	Homo sapiens plasminogen activator inhibitor, type II (arginine-serpin) (PAI2) mRNA
3834	16874	29775	3.15	0.0E+00	AF179733.1	NT	Pan troglodytes olfactory receptor (PTR208) gene, partial cds
3837	16877	29779	2.76	0.0E+00	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
3837	16877	29780	2.76	0.0E+00	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
3843	16883	29787	0.91	0.0E+00	AF127851.1	NT	Gorilla gorilla olfactory receptor (GGO71) gene, partial cds
3843	16883	29788	0.91	0.0E+00	AF127851.1	NT	Gorilla gorilla olfactory receptor (GGO71) gene, partial cds
3844	16884	29789	1.01	0.0E+00	AI377695.1	EST_HUMAN	te62710.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2091307 3'
3845	16885		1.81	0.0E+00	AF152496.1	NT	Homo sapiens protobactherin beta 3 (PCDH-beta3) mRNA, complete cds
3846	16886	29790	0.97	0.0E+00	4758198	NT	Homo sapiens desmoplakin (DPI, DPII) (DSP) mRNA

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3850	16890	29794	16.29	0.0E+00	S78885.1	NT	Homo sapiens ATP-sensitive inwardly rectifying K-channel subunit (KCNJ6/BIR1) gene, complete cds
3852	16892	29796	2.25	0.0E+00	7710148	NT	Homo sapiens methyl CpG binding protein 2 (MECP2), mRNA
3853	16893	29797	1.54	0.0E+00	7682183	NT	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
3857	16897	29800	1.1	0.0E+00	4504534	NT	Homo sapiens 5-hydroxytryptamine (serotonin) receptor 1D (HTR1D), mRNA
3862	16901	29803	1.15	0.0E+00	AB001523.1	NT	Homo sapiens gene for TMEM1 and PWP2, complete and partial cds
3862	16901	29806	1.15	0.0E+00	AB001523.1	NT	Homo sapiens gene for TMEM1 and PWP2, complete and partial cds
3863	16902	29807	0.77	0.0E+00	6912735	NT	Homo sapiens transient receptor potential channel 5 (TRPC5), mRNA
3868	16907	29815	7.17	0.0E+00	4503178	NT	Homo sapiens chromosome X open reading frame 5 (CXORF5), mRNA
3868	16907	29816	7.17	0.0E+00	4503178	NT	Homo sapiens chromosome X open reading frame 5 (CXORF5), mRNA
3870	16909	29819	4.34	0.0E+00	U09412.1	NT	Human zinc finger protein ZNF134 mRNA, complete cds
3871	16910	29820	1.13	0.0E+00	AF114488.1	NT	Homo sapiens intersectin short isoform (ITSN) mRNA, complete cds
3874	16913	29822	1.29	0.0E+00	4826783	NT	Homo sapiens potassium voltage-gated channel, Shab-related subfamily, member 1 (KCNB1) mRNA
3877	16916	29825	1.3	0.0E+00	AF012615.1	NT	Homo sapiens familial mental retardation protein 2 (FMR2) gene, exon 11
3878	16917	29826	2.38	0.0E+00	4759171	NT	Homo sapiens SC35-interacting protein 1 (SRRP129), mRNA
3880	16919	29828	0.73	0.0E+00	AF099117.1	NT	Homo sapiens amphiphysin gene, partial cds
3889	16929	29838	2.34	0.0E+00	AI864727.1	EST_HUMAN	wk01f01.x1 NCI_CGAP_Lym12 Homo sapiens cDNA clone IMAGE:2411085 3' similar to TR:O43340
3892	16932	29842	13.72	0.0E+00	4506742	NT	O43340 R28830_2, contains element PTR7 repetitive element ;
3897	16937	29848	1.39	0.0E+00	AL040338.1	EST_HUMAN	Homo sapiens ribosomal protein S8 (RPS8), mRNA
3903	16943	29855	1.34	0.0E+00	6005887	NT	DKFZp434N0413_1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434N0413 5'
3903	16943	29856	1.34	0.0E+00	6005887	NT	Homo sapiens AP1 gamma subunit binding protein 1 (AP1GBP1), mRNA
3904	16944	29857	1.78	0.0E+00	4504138	NT	Homo sapiens AP1 gamma subunit binding protein 1 (AP1GBP1), mRNA
3906	16946	29857	1.75	0.0E+00	4505078	NT	Homo sapiens glutamate receptor, metabotropic 3 (GRM3) mRNA
3910	16950	29861	1.06	0.0E+00	AF149412.1	NT	Homo sapiens melanoma antigen, family B, 1 (MAGEB1) mRNA
3924	16964	29877	1.17	0.0E+00	4506758	NT	Homo sapiens HBP17 heparin-binding and FGF-binding protein gene, complete cds
3928	16968	29881	1.3	0.0E+00	4595842	NT	Homo sapiens tyrosine receptor 3 (RYR3) mRNA
3936	16976	29890	1.54	0.0E+00	BF355295.1	EST_HUMAN	Homo sapiens zinc finger protein (KIAA0412) mRNA
3937	16977	29891	1.05	0.0E+00	AW888221.1	EST_HUMAN	RC3-H10860-170800-011-at12 expression library Homo sapiens cDNA clone Incyte 1996726 similar to MXRA5
3937	16977	29892	1.05	0.0E+00	AW888221.1	EST_HUMAN	MXRA5 Human matrix tissue expression library Homo sapiens cDNA clone Incyte 1996726 similar to MXRA5
3947	16987	29902	1.85	0.0E+00	AF129533.1	NT	Matrix remodeling associated gene 5
							MXRA5 Human matrix tissue expression library Homo sapiens cDNA clone Incyte 1996726 similar to MXRA5
							Matrix remodeling associated gene 5
							Homo sapiens F-box protein Fbl3b (FBL3B) mRNA, partial cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3952	16992	29908	3.36	0.0E+00	BE378602.1	EST_HUMAN	601236966F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3608800 5'
3961	17001	29916	1.06	0.0E+00	AW580740.1	EST_HUMAN	PM3-L T0031-100100-003-H09 LT0031 Homo sapiens cDNA
4000	17039	29945	5.21	0.0E+00	AF116195.1	NT	Homo sapiens cancer-testis antigen CT10 (CT10) gene, complete cds
4000	17039	29948	5.21	0.0E+00	AF116195.1	NT	Homo sapiens cancer-testis antigen CT10 (CT10) gene, complete cds
4010	17049		3.56	0.0E+00	M23910.1	NT	Human MHC class II lymphocyte antigen DPw4-beta-2 pseudogene, exon 2
4013	17052		6.54	0.0E+00	AL163303.2	NT	Homo sapiens chromosome 21 segment HS21C103
4022	17060	29961	3.12	0.0E+00	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
4031	17069	29970	1.59	0.0E+00	AL163288.2	NT	Homo sapiens chromosome 21 segment HS21C088
4036	17074	29974	0.99	0.0E+00	S78653.1	NT	mrg-nas-related [human, Genomic, 2416 nt]
4047	17085		56.15	0.0E+00	4503470	NT	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA
4054	17091		1.47	0.0E+00	AI657076.1	EST_HUMAN	t55608.x1 NCL_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2244734 3' similar to TR:060309 O60309 KIAA0563 PROTEIN.
4057	17093	29988	1.13	0.0E+00	7662183	NT	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
4058	17094	29989	1.57	0.0E+00	U09366.1	NT	Human zinc finger protein ZNF133
4076	17111	30007	5.87	0.0E+00	AB015610.1	NT	Chlorocebus aethiops mRNA for ribosomal protein S4X, complete cds
4085	17119		3.81	0.0E+00	AJ238617.1	NT	Homo sapiens mRNA for UGA suppressor tRNA-associated antigenic protein (IRNA48 gene)
4093	17127	30020	1.14	0.0E+00	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
4094	17128	30021	2.67	0.0E+00	AJ277276.1	NT	Homo sapiens mRNA for rapa-2 (rapa gene)
4094	17128	30022	2.67	0.0E+00	AJ277276.1	NT	Homo sapiens mRNA for rapa-2 (rapa gene)
4100	17134	30028	7.81	0.0E+00	5032026	NT	Homo sapiens retinoblastoma-binding protein 4 (RBBP4) mRNA
4100	17134	30029	7.81	0.0E+00	5032026	NT	Homo sapiens retinoblastoma-binding protein 4 (RBBP4) mRNA
4111	17145	30039	1.27	0.0E+00	4503914	NT	Homo sapiens phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthetase, mRNA
4117	17150	30042	4.06	0.0E+00	4885306	NT	Homo sapiens G protein-coupled receptor 21 (GPR21), mRNA
4118	17151	30043	1.32	0.0E+00	AB006625.1	NT	Homo sapiens mRNA for KIAA0287 gene, partial cds
4121	17154	30044	7.49	0.0E+00	11419297	NT	Homo sapiens IMP (inosine monophosphate) dehydrogenase 1 (IMPDH1), mRNA
4122	17155	30045	2.05	0.0E+00	AL096857.1	NT	Novel human mRNA from chromosome 1, which has similarities to BAT2 genes
4123	17156		1.21	0.0E+00	AA018975.1	EST_HUMAN	ze55609.r1 Soares retina N2b-4HR Homo sapiens cDNA clone IMAGE:362820 5' similar to contains Alu repetitive element;
4129	17162	30051	3.26	0.0E+00	AF165527.1	NT	Homo sapiens DGCR8 (DGCR8) mRNA, complete cds
4138	14177	27127	1.62	0.0E+00	4826947	NT	Homo sapiens protein kinase, X-linked (PRKX) mRNA
4138	14177	27128	1.62	0.0E+00	4826947	NT	Homo sapiens protein kinase, X-linked (PRKX) mRNA
4143	17175	30063	1.26	0.0E+00	5901905	NT	Homo sapiens butyrophilin, subfamily 3, member A2 (BTN3A2), mRNA
4144	17176	30064	1.09	0.0E+00	4503854	NT	Homo sapiens GA-binding protein transcription factor, alpha subunit (60kD) (GABPA), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4144	17176	30065	1.09	0.0E+00	4503854	NT	Homo sapiens GA-binding protein transcription factor, alpha subunit (60kD) (GABPA), mRNA
4146	16598	29523	0.86	0.0E+00	4509884	NT	Homo sapiens semenogelin II (SEMG2), mRNA
4148	17179	30067	0.8	0.0E+00	8922391	NT	Homo sapiens hypothetical protein FLJ10379 (FLJ10379), mRNA
4148	17179	30068	0.8	0.0E+00	8922391	NT	Homo sapiens hypothetical protein FLJ10379 (FLJ10379), mRNA
4153	17184	30071	0.66	0.0E+00	AB020702.1	NT	Homo sapiens mRNA for KIAA0895 protein, partial cds
4159	17190	30078	4.7	0.0E+00	A1982597.1	EST_HUMAN	wu04d04.x1 NCL_CGAP_G06 Homo sapiens cDNA clone IMAGE:2515975 3'
4159	17190	30079	4.7	0.0E+00	A1982597.1	EST_HUMAN	wu04d04.x1 NCL_CGAP_G06 Homo sapiens cDNA clone IMAGE:2515975 3'
4161	17192	30081	1.2	0.0E+00	BE184856.1	EST_HUMAN	MR1-HT0707-100500-001-a02 HT0707 Homo sapiens cDNA
4161	17192	30082	1.2	0.0E+00	BE184856.1	EST_HUMAN	MR1-HT0707-100500-001-a02 HT0707 Homo sapiens cDNA
4165	17196		3.98	0.0E+00	BE274217.1	EST_HUMAN	601120778F1 NIH_MGC 20 Homo sapiens cDNA clone IMAGE:2867690 5'
4170	17201	30087	0.93	0.0E+00	AB032951.1	NT	Homo sapiens mRNA for KIAA1125 protein, partial cds
4170	17201	30088	0.93	0.0E+00	AB032951.1	NT	Homo sapiens mRNA for KIAA1125 protein, partial cds
4172	17203	30090	1.02	0.0E+00	4507476	NT	Homo sapiens transglutaminase 3 (E polypeptide, protein-glutamine-gamma-glutamyltransferase) (TGM3) mRNA
4173	17204	30091	2.64	0.0E+00	5729725	NT	Homo sapiens nuclear receptor coactivator 3 (NCOA3), mRNA
4174	17205		1.13	0.0E+00	AL132959.1	NT	Novel human gene on chromosome 20
4183	17214		5.1	0.0E+00	AW675599.1	EST_HUMAN	ba51f04.x1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2900095 3' similar to SW:TH12_BOVIN
4188	17219	30106	1.12	0.0E+00	AW408788.1	EST_HUMAN	Q95108 MITOCHONDRIAL THIOREDOXIN PRECURSOR ;
4190	17221	30109	1.23	0.0E+00	8922466	NT	UHF-BM0-adv-c-02-0-UI.r1 NIH_MGC_38 Homo sapiens cDNA clone IMAGE:3063147 5'
4190	17221	30110	1.23	0.0E+00	8922466	NT	Homo sapiens hypothetical protein FLJ10498 (FLJ10498), mRNA
4200	17231		4.37	0.0E+00	5174632	NT	Homo sapiens polycystic kidney disease (polycystin) and REL (sperm receptor for egg jelly, sea urchin homolog-like (PKDREJ)) mRNA
4220	17249	30133	9.8	0.0E+00	AA401438.1	EST_HUMAN	zu68h07.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:743197 3' similar to contains Alu repetitive element; contains element MER35 repetitive element ;
4220	17249	30134	9.8	0.0E+00	AA401438.1	EST_HUMAN	zu68h07.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:743197 3' similar to contains Alu repetitive element; contains element MER35 repetitive element ;
4235	17264	30149	1.04	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
4235	17264	30150	1.04	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
4258	17287		0.87	0.0E+00	AL163303.2	NT	Homo sapiens chromosome 21 segment HS21C103
4286	17315	30194	1.26	0.0E+00	AJ003145.1	NT	Homo sapiens mRNA for olfactory receptor protein, pseudogene
4302	17331	30211	2.19	0.0E+00	J02610.1	NT	Human apolipoprotein B-100 mRNA, complete cds
4317	17346	30230	0.87	0.0E+00	AW936688.1	EST_HUMAN	PM2-DT0023-080300-004-a08 DT0023 Homo sapiens cDNA
4322	17351	30266	0.74	0.0E+00	4826827	NT	Homo sapiens myelodysplasia syndrome 1 (MDS1) mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4322	17351	30237	0.74	0.0E+00	4826827	NT	Homo sapiens myelodysplasia syndrome 1 (MDS1) mRNA
4324	17353	30239	3.59	0.0E+00	AF174590.1	NT	Homo sapiens F-box protein Fbl4 (FBL4) mRNA, partial cds
4332	17360		2.53	0.0E+00	AH89844.1	EST_HUMAN	q23106.x1 Soares_placenta_8to9weeks_2NBHP8to9W Homo sapiens cDNA clone IMAGE:1724579 3'
4336	17363		5.62	0.0E+00	U14520.1	NT	similar to contains MER20.b2 MER20 repetitive element ;
4347	17374	30254	0.92	0.0E+00	4505848	NT	Human CBFA3 (Cbfa3) gene, partial cds
4353	17380	30261	0.77	0.0E+00	6563384	NT	Homo sapiens protein kinase C, nu (PRKCN), mRNA
4353	17380	30262	0.77	0.0E+00	6563384	NT	Homo sapiens protein kinase C, nu (PRKCN), mRNA
4359	17386	30268	1.15	0.0E+00	U10991.1	NT	Human G2 protein mRNA, partial cds
4359	17386	30269	1.15	0.0E+00	U10991.1	NT	Human G2 protein mRNA, partial cds
4369	17396	30275	9.53	0.0E+00	6912281	NT	Homo sapiens COMPLEMENT COMPONENT C1q RECEPTOR (C1QR), mRNA
4387	17415		1.12	0.0E+00	AF153047.2	NT	Homo sapiens gap junction protein connexin-36 (CX36) gene, complete cds
4392	17420	30303	11.19	0.0E+00	U03901.1	NT	Human Ig light chain VL1 region germline (humiv1c2c) gene, partial cds
4398	17426	30310	4.52	0.0E+00	L14561.1	NT	Homo sapiens plasma membrane calcium ATPase isoform 1 (ATP2B1) gene, alternative splice products, partial cds
4402	17430	30315	6.75	0.0E+00	Z80780.1	NT	H.sapiens H2B/h gene
4402	17430	30316	6.75	0.0E+00	Z80780.1	NT	H.sapiens H2B/h gene
4408	17436	30322	1.31	0.0E+00	X60483.1	NT	H.sapiens H4/d gene for H4 histone
4408	17436	30323	1.31	0.0E+00	X60483.1	NT	H.sapiens H4/d gene for H4 histone
4413	17440	30329	9.47	0.0E+00	7662091	NT	Homo sapiens KIAA0390 gene product (KIAA0390), mRNA
4413	17440	30330	9.47	0.0E+00	7662091	NT	Homo sapiens KIAA0390 gene product (KIAA0390), mRNA
4423	17450	30341	1.22	0.0E+00	X82338.1	NT	Homo sapiens Menkes disease gene, exon 4
4426	17453	30345	15	0.0E+00	4885126	NT	Homo sapiens caudal type homeo box transcription factor 4 (CDX4), mRNA
4427	17454	30346	1.23	0.0E+00	AJ271736.1	NT	Homo sapiens Xq pseudautosomal region, segment 2/2
4430	17457	30348	1.01	0.0E+00	AB037781.1	NT	Homo sapiens myosin regulatory light chain interacting protein (MIR), mRNA
4463	17489	30376	1.2	0.0E+00	7019456	NT	Homo sapiens myosin regulatory light chain interacting protein (MIR), mRNA
4471	17497		5.71	0.0E+00	AF195953.1	NT	Homo sapiens membrane-bound aminopeptidase P (XNPEP2) gene, complete cds
4476	17502	30386	1.53	0.0E+00	AJ249765.1	NT	Homo sapiens ACTN2 gene for alpha-Actinin 2, exon 10
4476	17502	30387	1.53	0.0E+00	AJ249765.1	NT	Homo sapiens ACTN2 gene for alpha-Actinin 2, exon 10
4480	17505	30393	0.88	0.0E+00	W26179.1	EST_HUMAN	24q7 Human retina cDNA randomly primed sublibrary/Homo sapiens cDNA
4480	17505	30394	0.88	0.0E+00	W26179.1	EST_HUMAN	24q7 Human retina cDNA randomly primed sublibrary/Homo sapiens cDNA
4495	17520		2.47	0.0E+00	AF200629.1	NT	Homo sapiens HPS1 gene, intron 5
4514	17539	30424	0.63	0.0E+00	T10233.1	EST_HUMAN	seq1329 b4HB3MA Col8-HAP-Ft Homo sapiens cDNA clone b4HB3MA-COT8-HAP-Ft205 5'
4514	17539	30425	0.63	0.0E+00	T10233.1	EST_HUMAN	seq1329 b4HB3MA Col8-HAP-Ft Homo sapiens cDNA clone b4HB3MA-COT8-HAP-Ft205 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4517	17542		0.9	0.0E+00	M14123.1	NT	Human endogenous retrovirus HERV-K10
4529	17553	30441	3.45	0.0E+00	AW084964.1	EST_HUMAN	xc68e08.x1 NCI CGAP_Eso2 Homo sapiens cDNA clone IMAGE:2589446 3' similar to SW:AHNK_HUMAN
4531	18318		1.85	0.0E+00	8051619	NT	Q09686 NEUROBLAST DIFFERENTIATION ASSOCIATED PROTEIN AHNAK ; Homo sapiens LIM domain kinase 2 (LIMK2), transcript variant 2a, mRNA
4533	17556	30444	1.09	0.0E+00	A1696698.1	EST_HUMAN	wc58602.x1 NCI CGAP_P128 Homo sapiens cDNA clone IMAGE:2322603 3' similar to contains MER22.b2
4537	17560		8.59	0.0E+00	AL163207.2	NT	PTR5 repetitive element ; Homo sapiens chromosome 21 segment HS21C007
4539	17562	30449	1.96	0.0E+00	AW381570.1	EST_HUMAN	PM1-HT0305-10199-002-003 HT0305 Homo sapiens cDNA
4545	17568	30456	1.2	0.0E+00	AJ278120.1	NT	Homo sapiens mRNA for putative ankyrin-repeat containing protein (ORF1)
4546	17568	30457	1.2	0.0E+00	AJ278120.1	NT	Homo sapiens mRNA for putative ankyrin-repeat containing protein (ORF1)
4547	17570	30459	1.73	0.0E+00	4758467	NT	Homo sapiens G protein-coupled receptor 50 (GPR50) mRNA
4548	17571	30460	2.8	0.0E+00	AF108830.1	NT	Homo sapiens serine-threonine protein kinase (MNBH) mRNA, complete cds
4553	17576	30466	0.94	0.0E+00	Z86526.1	NT	H. sapiens pancreatic polypeptide receptor PP1 gene
4554	17577	30467	0.96	0.0E+00	4506952	NT	Homo sapiens sialyltransferase 8 (alpha-N-acetylneuraminase, alpha-2,8-sialyltransferase, GD3 synthase) (SIAT8) mRNA
4559	17582	30473	0.93	0.0E+00	S76684.1	NT	Homo sapiens ATP-sensitive inwardly rectifying K-channel subunit (KCNJ6/BIR1) gene, exon
4560	17583	30474	1.91	0.0E+00	AF111163.1	NT	Homo sapiens pyrin (MEFV) gene, complete cds
4560	17583	30475	1.91	0.0E+00	AF111163.1	NT	Homo sapiens pyrin (MEFV) gene, complete cds
4570	18319	30486	2.31	0.0E+00	6005973	NT	Homo sapiens zinc finger protein 195 (ZNF195), mRNA
4575	17597	30491	6.31	0.0E+00	AF208161.1	NT	Homo sapiens syncytin precursor, mRNA, complete cds
4582	17604	30501	1.32	0.0E+00	5454175	NT	Homo sapiens zinc finger protein 211 (ZNF211), mRNA
4595	17616	30510	30.53	0.0E+00	4503470	NT	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA
4605	17626	30518	1.62	0.0E+00	4503098	NT	Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA
4610	17631	30524	1.4	0.0E+00	4502556	NT	Homo sapiens calcium/calmodulin-dependent protein kinase IV (CAMK4) mRNA
4614	17635		2.89	0.0E+00	L35485.1	NT	Homo sapiens iduronate sulphate sulphotase (IDS) gene, complete cds
4616	17637	30526	13.95	0.0E+00	7662091	NT	Homo sapiens KIAA0390 gene product (KIAA0390), mRNA
4616	17637	30527	13.95	0.0E+00	7662091	NT	Homo sapiens KIAA0390 gene product (KIAA0390), mRNA
4632	17653	30540	1.97	0.0E+00	AF143314.1	NT	Homo sapiens PTEN (PTEN) gene, exons 3 through 5
4635	17656	30543	10.93	0.0E+00	AJ245418.1	NT	Homo sapiens mRNA for G7c protein (G7c gene located in the class III region of the major histocompatibility complex)
4635	17656	30544	10.93	0.0E+00	AJ245418.1	NT	Homo sapiens mRNA for G7c protein (G7c gene located in the class II region of the major histocompatibility complex)
4637	17658	30545	1.21	0.0E+00	AB018338.1	NT	Homo sapiens mRNA for KIAA0795 protein, partial cds
4645	17666		46.99	0.0E+00	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds

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4654	17675		1.51	0.0E+00	AA174072.1	EST_HUMAN	zp18g08.s1 Stratagene fetal retina 937202 Homo sapiens cDNA clone IMAGE:60854 3'
4656	17677		1.62	0.0E+00	7657410	NT	Homo sapiens cdz (odd Oz/ten-m, Drosophila) homolog 1 (ODZ1), mRNA
4658	17679		2.05	0.0E+00	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
4659	17680	30565	0.95	0.0E+00	H92741.1	EST_HUMAN	y92b01.s1 Soares_pineal_gland_N3HPG Homo sapiens cDNA clone IMAGE:231721 3'
4659	17680	30566	0.95	0.0E+00	H92741.1	EST_HUMAN	y92b01.s1 Soares_pineal_gland_N3HPG Homo sapiens cDNA clone IMAGE:231721 3'
4660	17681	30567	1.42	0.0E+00	AF184110.1	NT	Homo sapiens cyclophilin-related protein (NKTR) gene, complete cds
4661	17682	30568	5.53	0.0E+00	AL163300.2	NT	Homo sapiens chromosome 21 segment HS21C100
4662	17683		1.84	0.0E+00	AB037521.1	NT	Homo sapiens gene for netritretic protein, partial cds
4664	17685	30569	0.66	0.0E+00	AF196658.1	NT	Homo sapiens DNA mismatch repair protein (MLH3) gene, complete cds
4669	17690	30576	1.04	0.0E+00	AL162331.1	NT	Novel human gene mapping to chromosome 1
4672	17693	30579	1.89	0.0E+00	4557887	NT	Homo sapiens keratin 18 (KRT18) mRNA
4672	17693	30580	1.89	0.0E+00	4557887	NT	Homo sapiens keratin 18 (KRT18) mRNA
4673	17694	30581	1.26	0.0E+00	AF167441.1	NT	Mus musculus E-cadherin binding protein E7 mRNA, complete cds
4682	17703	30592	1	0.0E+00	L78810.1	NT	Homo sapiens ADP/ATP carrier protein (ANT-2) gene, complete cds
4682	17703	30593	1	0.0E+00	L78810.1	NT	Homo sapiens ADP/ATP carrier protein (ANT-2) gene, complete cds
4682	17703	30594	1	0.0E+00	L78810.1	NT	Homo sapiens ADP/ATP carrier protein (ANT-2) gene, complete cds
4683	17704	30595	2.03	0.0E+00	AB028970.1	NT	Homo sapiens mRNA for KIAA1047 protein, partial cds
4683	17704	30598	2.03	0.0E+00	AB028970.1	NT	Homo sapiens mRNA for KIAA1047 protein, partial cds
4688	17709	30602	6.02	0.0E+00	Y18890.1	NT	Human endogenous retrovirus type K (HERV-K), gag, pol and env genes
4699	17720		2.24	0.0E+00	AF086641.1	NT	Homo sapiens truncated tenascin XB (TNXB) gene, partial cds and TNXA gene recombination breakpoint region
4704	17725	30619	2.92	0.0E+00	AB037820.1	NT	Homo sapiens mRNA for KIAA1399 protein, partial cds
4704	17725	30620	2.92	0.0E+00	AB037820.1	NT	Homo sapiens mRNA for KIAA1399 protein, partial cds
4705	17726	30621	3.31	0.0E+00	MT4099.1	NT	Human displacement protein (OCAAT) mRNA
4709	17730	30624	2.42	0.0E+00	6453812	NT	Homo sapiens butyrophilin, subfamily 2, member A2 (BTN2A2), mRNA
4709	17730	30625	2.42	0.0E+00	6453812	NT	Homo sapiens butyrophilin, subfamily 2, member A2 (BTN2A2), mRNA
4711	13244	26174	2.02	0.0E+00	T56945.1	EST_HUMAN	ya83g04.r2 Stratagene fetal spleen (#937205) Homo sapiens cDNA clone IMAGE:68310 5'
4711	13244	26175	2.02	0.0E+00	T56945.1	EST_HUMAN	ya83g04.r2 Stratagene fetal spleen (#937205) Homo sapiens cDNA clone IMAGE:68310 5'
4713	17733		1.22	0.0E+00	BE27870.1	EST_HUMAN	601158835F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3505521 5'
4737	17757	30651	4.85	0.0E+00	5729817	NT	Homo sapiens ecotropic viral integration site 2B (EVI2B), mRNA
4737	17757	30652	4.85	0.0E+00	5729817	NT	Homo sapiens ecotropic viral integration site 2B (EVI2B), mRNA
4743	17763	30657	5.55	0.0E+00	M80902.1	NT	Human AHNK nucleoprotein mRNA, 5' end
4746	17766	30660	6.62	0.0E+00	M69197.1	NT	Human haptoglobin and haptoglobin-related protein (HP and HPR) genes, complete cds
4748	17766	30661	6.62	0.0E+00	M69197.1	NT	Human haptoglobin and haptoglobin-related protein (HP and HPR) genes, complete cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4750	17770	30666	2.21	0.0E+00	AF184110.1	NT	Homo sapiens cyclophilin-related protein (NKTR) gene, complete cds
4752	17772	30668	24.63	0.0E+00	7662479	NT	Homo sapiens KIAA1084 protein (KIAA1084), mRNA
4754	17774	30669	2.9	0.0E+00	7662181	NT	Homo sapiens KIAA0563 gene product (KIAA0563), mRNA
4760	17780	30675	0.96	0.0E+00	S71446.1	NT	SCN1A-brain type I sodium channel alpha-subunit (IIIS5 transmembrane region) [human, placenta, Genomic, 1556 nt]
4760	17780	30676	0.96	0.0E+00	S71446.1	NT	SCN1A-brain type I sodium channel alpha-subunit (IIIS5 transmembrane region) [human, placenta, Genomic, 1556 nt]
4765	17785	30681	0.96	0.0E+00	AL096857.1	NT	Novel human mRNA from chromosome 1, which has similarities to BAT2 genes
4770	17790		1.25	0.0E+00	X59467.1	NT	Human CYP2D7AP pseudogene for cytochrome P450 2D6
4781	17801	30691	0.81	0.0E+00	7304922	NT	Homo sapiens bromodomain adjacent to zinc finger domain, 2B (BAZ2B), mRNA
4781	17801	30692	0.81	0.0E+00	7304922	NT	Homo sapiens bromodomain adjacent to zinc finger domain, 2B (BAZ2B), mRNA
4792	17809	30701	1.56	0.0E+00	AF026801.1	NT	Homo sapiens alpha-3 type IX collagen (COL9A3) gene, promoter region, and exons 1-28
4795	17812	30704	1.12	0.0E+00		NT	Homo sapiens G-protein coupled receptor (RE2), mRNA
4795	17812	30705	1.12	0.0E+00	6677700	NT	Homo sapiens G-protein coupled receptor (RE2), mRNA
4797	17814	30707	1.12	0.0E+00	7019320	NT	Homo sapiens proteinx0008 (AD013), mRNA
4797	17814	30708	1.12	0.0E+00	7019320	NT	Homo sapiens proteinx0008 (AD013), mRNA
4825	17842	30740	1.49	0.0E+00	AW44637.1	EST_HUMAN	UI-H-B13-ajw-c-04-0-UI, s1 NCJ CGAG_Sub55 Homo sapiens cDNA clone IMAGE:2733294 3'
4831	17848	30749	0.99	0.0E+00	AF303134.1	NT	Homo sapiens aldehyde dehydrogenase 12 (ALDH12) mRNA, complete cds
4832	17849		1.83	0.0E+00	AF083242.1	NT	Homo sapiens HSPC024-Iso mRNA, complete cds
4873	17890	30778	0.68	0.0E+00	J00191.1	NT	Human MHC class I transplantation antigen (hla) gene
4873	17890	30779	0.68	0.0E+00	J00191.1	NT	Human MHC class I transplantation antigen (hla) gene
4879	17896		4.64	0.0E+00	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
4882	17899	30788	1.6	0.0E+00	X87205.1	NT	MA fascicularis mRNA for metalloproteinase-like, disintegrin-like protein, IVa
4884	17901	30790	0.93	0.0E+00	AF084479.1	NT	Homo sapiens Williams-Beuren syndrome deletion transcript 9 (WBSCR9) mRNA, complete cds
4885	17902	30791	1.29	0.0E+00	AF097416.1	NT	Mus musculus zinc finger transcription factor Kaiso mRNA, complete cds
4886	17903	30792	3.04	0.0E+00	4503766	NT	Homo sapiens fragile X mental retardation 2 (FMR2) mRNA
4888	17905	30794	13.14	0.0E+00	4885048	NT	Homo sapiens actin, alpha, cardiac muscle (ACTC), mRNA
4889	17906	30795	1.37	0.0E+00	P52740	SWISSPROT	ZINC FINGER PROTEIN 132
4891	17908	30797	1.65	0.0E+00	8922180	NT	Homo sapiens hypothetical protein DKFZp762E1312 (DKFZp762E1312), mRNA
4894	17911	30801	4.6	0.0E+00	8923080	NT	Homo sapiens hypothetical protein FLJ20073 (FLJ20073), mRNA
4898	17915	30805	1.75	0.0E+00	M94081.1	NT	Human Tcr-C-delta gene, exons 1-4; Tcr-V-delta gene, exons 1-2; T-cell receptor alpha (Tcr-alpha) gene, J1-J61 segments; and Tcr-C-alpha gene, exons 1-4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4898	17915	30806	1.75	0.0E+00	M94091.1	NT	Human Tcr-C-delta gene, exons 1-4; Tcr-V-delta gene, exons 1-2; T-cell receptor alpha (Tcr-alpha) gene, J1-J61 segments; and Tcr-C-alpha gene, exons 1-4
4900	17917	30808	1.49	0.0E+00	X94628.1	NT	H.sapiens MeCP-2 gene
4900	17917	30809	1.49	0.0E+00	X94628.1	NT	H.sapiens MeCP-2 gene
4903	17920	30812	2.38	0.0E+00	AL163280.2	NT	Homo sapiens chromosome 21 segment HS21C080
4912	17929	30820	1.16	0.0E+00	5032150	NT	Homo sapiens TATA box binding protein (TBP)-associated factor, RNA polymerase II, 1, 28kD (TAF21) mRNA
4921	17938	30830	1.59	0.0E+00	X92841.1	NT	H.sapiens MICA gene
4923	17940	30832	1.34	0.0E+00	4585642	NT	Homo sapiens zinc finger protein (KIAA0412) mRNA
4924	17941	30833	0.89	0.0E+00	AB037864.1	NT	Homo sapiens mRNA for KIAA1443 protein, partial cds
4925	17942	30834	1.25	0.0E+00	Y09232.1	NT	H.sapiens ferritin alpha pseudogene
4928	17943	30835	1.17	0.0E+00	AB014533.1	NT	Homo sapiens mRNA for KIAA0633 protein, partial cds
4927	17944	30836	2.3	0.0E+00	6877848	NT	Mus musculus zinc finger protein interacting with K protein 1 (Zfk1), mRNA
4929	17946	30838	1.49	0.0E+00	4758199	NT	Homo sapiens desmoplakin (DPL, DPL1) (DSP) mRNA
4930	17947	30839	0.97	0.0E+00	Y16723.1	NT	Homo sapiens gene encoding flensin, exon 8
4931	17948	30840	1.15	0.0E+00	7705548	NT	Homo sapiens zinc-finger DNA-binding protein (HUMHOXY1), mRNA
4932	17949		25.08	0.0E+00	AJ010442.1	NT	Homo sapiens mRNA for immunoglobulin kappa light chain, anti-RhD, therad 7
4936	17952	30844	25.15	0.0E+00	AF055056.1	NT	Homo sapiens MHG class 1 region
4938	17954		1.97	0.0E+00	4505508	NT	Homo sapiens opicid receptor, delta 1 (OPRD1) mRNA
4939	17955	30847	2.01	0.0E+00	AF091711.1	NT	Homo sapiens splice variant AKAP350 mRNA, partial cds
4941	17957		0.81	0.0E+00	U39965.1	NT	Homo sapiens flavin containing monooxygenase 3 (FMO3) gene, exon 7
4952	17967	30857	0.99	0.0E+00	D63562.1	NT	Homo sapiens COL4A6 gene for a6(IV) collagen, exon 44 and partial cds
4954	17969	30859	1.82	0.0E+00	4503894	NT	Homo sapiens farnesyl diphosphate synthase (farnesyl pyrophosphate synthetase, dimethylallyltransferase, geranyltransferase) (FDPS) mRNA
4961	17976		0.96	0.0E+00	AI291129.1	EST_HUMAN	qm15105.x1 NCI CGAP Lu5 Homo sapiens cDNA clone IMAGE:1881921 3' similar to TR:Q61632 Q61632
4972	17987	30878	0.93	0.0E+00	4504082	NT	EN-2/LACZ FUSION PROTEIN ;
4972	17987	30879	0.93	0.0E+00	4504082	NT	Homo sapiens glypican 4 (GPC4) mRNA
4990	18005	30893	1.88	0.0E+00	AL163284.2	NT	Homo sapiens glypican 4 (GPC4) mRNA
4995	18010	30897	1.24	0.0E+00	7862319	NT	Homo sapiens chromosome 21 segment HS21C084
5008	18022		6.04	0.0E+00	U14967.1	NT	Homo sapiens KIAA0806 gene product (KIAA0806), mRNA
5018	18032	30918	1.06	0.0E+00	M10976.1	NT	Human ribosomal protein L21 mRNA, complete cds
5020	18034		2.79	0.0E+00	BE-408863.1	EST_HUMAN	Human endogenous retroviral DNA (4-1), complete retroviral segment
5023	18037	30922	3.2	0.0E+00	4758199	NT	601303729F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3638118 5'
							Homo sapiens desmoplakin (DPL, DPL1) (DSP) mRNA

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5030	18044	30926	1.24	0.0E+00	AB028966.1	NT	Homo sapiens mRNA for KIAA1043 protein, partial cds
5044	18057	30935	1.97	0.0E+00	8923441	NT	Homo sapiens hypothetical protein FLJ20477 (FLJ20477), mRNA
5044	18057	30936	1.97	0.0E+00	8923441	NT	Homo sapiens hypothetical protein FLJ20477 (FLJ20477), mRNA
5057	18068	30947	0.75	0.0E+00	AA601246.1	EST_HUMAN	no14g09.s1 NCI_CGAP_Phe1 Homo sapiens cDNA clone IMAGE:1100704 3' similar to TR:E239140 E239140 SPALT PROTEIN;
5057	18068	30948	0.75	0.0E+00	AA601246.1	EST_HUMAN	no14g09.s1 NCI_CGAP_Phe1 Homo sapiens cDNA clone IMAGE:1100704 3' similar to TR:E239140 E239140 SPALT PROTEIN;
5057	18068	30949	0.75	0.0E+00	AA601246.1	EST_HUMAN	no14g09.s1 NCI_CGAP_Phe1 Homo sapiens cDNA clone IMAGE:1100704 3' similar to TR:E239140 E239140 SPALT PROTEIN;
5074	18084		1.34	0.0E+00	4758225	NT	Homo sapiens E2F transcription factor 2 (E2F2) mRNA
5088	18098	30974	0.8	0.0E+00	U53588.1	NT	Homo sapiens MHC class 1 region
5094	18104		1.27	0.0E+00	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
5097	18107		24.84	0.0E+00	D50657.1	NT	Homo sapiens gamma-cytoplasmic actin (ACTG3) pseudogene
5122	18132	31009	3.45	0.0E+00	X52988.1	NT	Bacillus amyloqueliciens sacB gene for levansucrase (EC 2.4.1.10)
5141	18150	31029	0.98	0.0E+00	AF240635.1	NT	Homo sapiens vascular endothelial cadherin 2 mRNA, complete cds
5141	18150	31030	0.98	0.0E+00	AF240635.1	NT	Homo sapiens vascular endothelial cadherin 2 mRNA, complete cds
5142	18151	31031	0.95	0.0E+00	5454153	NT	Homo sapiens cyclophilin (USA-CYP) mRNA
5171	18180	31057	1.07	0.0E+00	Y12477.1	NT	Homo sapiens putative GPR37 gene, exon 2
5171	18180	31058	1.07	0.0E+00	Y12477.1	NT	Homo sapiens putative GPR37 gene, exon 2
5176	18185	31062	1.31	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
5208	18217	31092	0.84	0.0E+00	7706245	NT	Homo sapiens 4F2 light chain (LOC51597), mRNA
5208	18217	31093	0.84	0.0E+00	7706245	NT	Homo sapiens 4F2 light chain (LOC51597), mRNA
5218	18227	31101	1.13	0.0E+00	U26556.1	NT	Human versican V2 core protein precursor splice-variant mRNA, complete cds
5221	18229	31103	1.01	0.0E+00	AF108830.1	NT	Homo sapiens serine-threonine protein kinase (MNBH) mRNA, complete cds
5221	18229	31104	1.01	0.0E+00	AF108830.1	NT	Homo sapiens serine-threonine protein kinase (MNBH) mRNA, complete cds
5236	18244	31116	1.11	0.0E+00	4826777	NT	Homo sapiens jumortji (mouse) homolog (JMJ) mRNA
5257	18265						Human oligodendrocyte myelin glycoprotein (OMG) exons 1-2; neurofibromatosis 1 (NF1) exons 28-49; ectotropic viral integration site 2B (EVI2B) exons 1-2; ectotropic viral integration site 2A (EVI2A) exons 1-2; adenylate kinase (AK3) exons 1-2
5264	18272		1.35	0.0E+00	L05367.1	NT	Homo sapiens T-cell receptor gamma V1 gene region
5296	18301	31161	1.06	0.0E+00	AF05177.1	NT	Homo sapiens mRNA for neuroxin I-alpha protein, complete cds
5296	18301	31161	0.63	0.0E+00	AB035356.1	NT	Homo sapiens mRNA for neuroxin I-alpha protein, complete cds
5305	18308		2.09	0.0E+00	AL040249.1	EST_HUMAN	DKFZp434l0713_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434l0713 5'
5313	18329		3.2	0.0E+00	AF093093.1	NT	Homo sapiens aconitase (ACO2) gene, nuclear gene encoding mitochondrial protein, exon 15
5324	18430	31181	2.03	0.0E+00	AF137286.1	NT	Homo sapiens keratin 12 (KRT12) gene, complete cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5324	18430	31182	2.03	0.0E+00	AF137286.1	NT	Homo sapiens keratin 12 (KRT12) gene, complete cds
5346	18451	31322	1.19	0.0E+00	AI934954.1	EST_HUMAN	wp06g08.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2464094 3'
5349	18454	31325	1.2	0.0E+00	9256579	NT	Homo sapiens protodactherin alpha 13 (PCDHA13), mRNA
5364	18469	31340	4.04	0.0E+00	BE931080.1	EST_HUMAN	RC3-GN0076-310800-013-b03 GN0076 Homo sapiens cDNA
5368	18473	31344	2.93	0.0E+00	AF182034.1	NT	Homo sapiens polycystic kidney disease-like 2 protein (PKDL2) mRNA, complete cds
5368	18473	31345	2.93	0.0E+00	AF182034.1	NT	Homo sapiens polycystic kidney disease-like 2 protein (PKDL2) mRNA, complete cds
5376	18480	31354	32.34	0.0E+00	X56163.1	NT	H. sapiens immunoglobulin heavy chain gene, variable region
5376	18480	31355	32.34	0.0E+00	X56163.1	NT	H. sapiens immunoglobulin heavy chain gene, variable region
5457	18569	31470	8.37	0.0E+00	BE975498.1	EST_HUMAN	7110c06.x1 NCI_CGAP_GLL1 Homo sapiens cDNA clone IMAGE:3294250 3'
5458	18560	31471	1.72	0.0E+00	BE220753.1	EST_HUMAN	h189a02.x1 NCI_CGAP_LU24 Homo sapiens cDNA clone IMAGE:3166194 3' similar to SW:Y054_HUMAN
5459	18561	31472	1.69	0.0E+00	BE794412.1	EST_HUMAN	P42894 HYPOTHETICAL PROTEIN KIAA0054 ;
5459	18561	31473	1.69	0.0E+00	BE794412.1	EST_HUMAN	601589422F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943804 5'
						EST_HUMAN	601589422F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943804 5'
5460	18562	31474	0.63	0.0E+00	AI189142.1	EST_HUMAN	qd04a04.x1 Soares, placenta, 8to9weeks, 2NbHP8tc9W Homo sapiens cDNA clone IMAGE:1722702 3' similar to SW:T2D3_DROME P49846 TRANSCRIPTION INITIATION FACTOR TFID 85 KD SUBUNIT ;
5464	18566	31477	18.78	0.0E+00	M29908.1	NT	Homo sapiens eosinophil peroxidase (EPP) gene, exon 7
5468	18570	31480	0.56	0.0E+00	AI791363.1	EST_HUMAN	oh68a09.y5 NCI_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1472162 5' similar to gb:M18512 IG
5478	28639	31488	4.25	0.0E+00	11421038	NT	HEAVY CHAIN PRECURSOR V-J REGION (HUMAN);
5488	18588					EST_HUMAN	Homo sapiens Sp4 transcription factor (SP4), mRNA
5489	18589	31499	1.72	0.0E+00	BF665962.1	EST_HUMAN	602118928F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4276254 5'
5489	18589	31500	0.77	0.0E+00	AU134406.1	EST_HUMAN	AU134406 OVARC1 Homo sapiens cDNA clone OVARC1001894 5'
5495	18595	31507	0.64	0.0E+00	BE538857.1	EST_HUMAN	AU1061489F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3447839 5'
5504	18604	31533	1.22	0.0E+00	BE292784.1	EST_HUMAN	601105891F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2888310 5'
5509	18609	31539	2.05	0.0E+00	BF526328.1	EST_HUMAN	602071372F1 NCI_CGAP_Brm64 Homo sapiens cDNA clone IMAGE:4214272 5'
5508	18609	31540	2.05	0.0E+00	BF526328.1	EST_HUMAN	602071372F1 NCI_CGAP_Brm64 Homo sapiens cDNA clone IMAGE:4214272 5'
5529	20048	33350	2.31	0.0E+00	4557364	NT	Homo sapiens Bloom syndrome (BLM) mRNA
5532	18630	31567	1.03	0.0E+00	AB007835.1	NT	Homo sapiens mRNA for KIAA0466 protein, partial cds
5532	18630	31568	1.03	0.0E+00	AB007835.1	NT	Homo sapiens mRNA for KIAA0466 protein, partial cds
5536	18633	31572	4.25	0.0E+00	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
5536	18633	31573	4.25	0.0E+00	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
5550	18647	31589	1.18	0.0E+00	D26535.1	NT	Human gene for dihydropyrimidine succinyltransferase, complete cds (exon 1-15)
5550	18647	31590	1.18	0.0E+00	D26535.1	NT	Human gene for dihydropyrimidine succinyltransferase, complete cds (exon 1-15)

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5666	18663	31623	1.8	0.0E+00	11420819	NT	Homo sapiens olfactory receptor, family 2, subfamily F, member 1 (OR2F1), mRNA
5672	18668	31629	1.55	0.0E+00	Z38133.1	NT	H. sapiens mRNA for myosin
5591	18687	31655	0.87	0.0E+00	D61564.1	EST_HUMAN	HUM418D05B Clontech human fetal brain polyA+ mRNA (#5635) Homo sapiens cDNA clone GEN-418D05
5591	18687	31656	0.87	0.0E+00	D61564.1	EST_HUMAN	HUM418D05B Clontech human fetal brain polyA+ mRNA (#5635) Homo sapiens cDNA clone GEN-418D05
5594	18690	31660	3.21	0.0E+00	BF529931.1	EST_HUMAN	602042322F1 NCI_CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4179988 5'
5594	18690	31661	3.21	0.0E+00	BF529931.1	EST_HUMAN	602042322F1 NCI_CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4179988 5'
5599	18695	31665	2.24	0.0E+00	BF513139.1	EST_HUMAN	601897658F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4128816 5'
5610	18706	31853	3.88	0.0E+00	11434392	NT	Homo sapiens calcium channel, voltage-dependent, alpha 1G subunit (CACNA1G), mRNA
5626	18722	31881	0.57	0.0E+00	A1928181.1	EST_HUMAN	wc95602.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2463051 3' similar to TR:O75054
5628	18722	31882	0.57	0.0E+00	A1928181.1	EST_HUMAN	wc95602.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2463051 3' similar to TR:O75054
5644	18740	31905	1.24	0.0E+00	BE260777.1	EST_HUMAN	O75054 KIAA0466 PROTEIN ;
5653	18749	31955	7.42	0.0E+00	AW867316.1	EST_HUMAN	601150252F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3502909 5'
5668	18763	31932	2.41	0.0E+00	BE292889.1	EST_HUMAN	MRO-SN0037-Q30400-001-H07 SN0037 Homo sapiens cDNA
5668	18763	31933	2.41	0.0E+00	BE292889.1	EST_HUMAN	601106291F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2987903 5'
5689	18784	31955	1.79	0.0E+00	11420819	NT	601106291F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2987903 5'
5689	18784	31956	1.79	0.0E+00	11420819	NT	Homo sapiens olfactory receptor, family 2, subfamily F, member 1 (OR2F1), mRNA
5697	18792	31964	4.3	0.0E+00	AF084254.1	NT	Homo sapiens olfactory receptor, family 2, subfamily F, member 1 (OR2F1), mRNA
5697	18792	31965	4.3	0.0E+00	AF084254.1	NT	Homo sapiens very long-chain acyl-CoA synthetase homolog 1 mRNA, complete cds
5704	18799	31975	2.88	0.0E+00	AJ224639.1	NT	Homo sapiens Surf-5 and Surf-6 genes
5704	18799	31976	2.98	0.0E+00	AJ224639.1	NT	Homo sapiens Surf-5 and Surf-6 genes
5735	18829	32007	0.7	0.0E+00	A1198515.1	EST_HUMAN	q184g10.x1 Soares_placenta_8to9weeks_2NbHP8tct9W Homo sapiens cDNA clone IMAGE:1757730 3' similar to SW:CADC_HUMAN_P65289 BRAIN-CADHERIN PRECURSOR ;
5739	18833	32013	7.48	0.0E+00	M85719.1	EST_HUMAN	EST02238 Fetal brain, Striatum (cat#536206) Homo sapiens cDNA clone HFBGM48
5746	18840	32022	5.85	0.0E+00	AW405472.1	EST_HUMAN	UI-HF-BLQ-adh-Q02-Q-UJ.r1 NIH_MGC_37 Homo sapiens cDNA clone IMAGE:3061658 5'
5759	18852	32032	1.19	0.0E+00	Z26289.1	NT	H. sapiens isoform 1 gene for L-type calcium channel, exon 14 adnd 15
5771	18863	32042	1.87	0.0E+00	AW361877.1	EST_HUMAN	PM3-CT0263-091299-007-h05 CT0263 Homo sapiens cDNA
5771	18863	32043	1.87	0.0E+00	AW361877.1	EST_HUMAN	PM3-CT0263-091299-007-h05 CT0263 Homo sapiens cDNA
5771	18863	32044	1.87	0.0E+00	AW361877.1	EST_HUMAN	PM3-CT0263-091299-007-h05 CT0263 Homo sapiens cDNA
5774	18866	32047	0.64	0.0E+00	AB035266.1	NT	Homo sapiens mRNA for neurexin II, complete cds
5774	18866	32048	0.64	0.0E+00	AB035266.1	NT	Homo sapiens mRNA for neurexin II, complete cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5776	18868	32051	2.24	0.0E+00	U36261.1	NT	Human beta-prime-adaptin (BAM22) gene, exon 13
5811	18901	32084	1.13	0.0E+00	AB049861.1	NT	Homo sapiens mRNA for KIAA1841 protein, partial cds
5833	18923	32107	0.53	0.0E+00	AI114826.1	EST_HUMAN	HA1435 Human fetal liver cDNA library Homo sapiens cDNA
5873	18962	32151	2.4	0.0E+00	AA195905.1	EST_HUMAN	zp98b11.r1 Stratagene muscle 937209 Homo sapiens cDNA clone IMAGE:827933 5' similar to gb:X03740
5874	18963	32152	1.22	0.0E+00	AJ006345.1	NT	MYOSIN HEAVY CHAIN, SKELETAL MUSCLE (HUMAN);
5874	18963	32153	1.22	0.0E+00	AJ006345.1	NT	Homo sapiens KVLQT1 gene
5883	18972	32165	1.32	0.0E+00	AJ207616.1	EST_HUMAN	Homo sapiens KVLQT1 gene
5905	18991	32182	5.12	0.0E+00	1141690.1	NT	HA2981 Human fetal liver cDNA library Homo sapiens cDNA
5910	18996	32185	1.25	0.0E+00	BE781173.1	EST_HUMAN	Homo sapiens protocadherin beta 2 (PCDH2), mRNA
5920	19006	32198	1.09	0.0E+00	9989943	NT	601594032F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3838551 5'
5921	19007	32199	7.69	0.0E+00	BE560082.1	EST_HUMAN	Homo sapiens amiloride-sensitive cation channel 1, neuronal (degenerin) (ACCN1), mRNA
5922	19008	32200	1.33	0.0E+00	10048478	NT	601345141F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3677943 5'
5923	19009	32201	3.06	0.0E+00	U86961.1	NT	Mus musculus acorhin (Acz), mRNA
5923	19009	32202	3.06	0.0E+00	U86961.1	NT	Human L-type calcium channel beta-1 subunit (CACNLB1) gene, exon 13B and isoform beta-1B, complete cds
5942	19028	32222	1.81	0.0E+00	BF338635.1	EST_HUMAN	Human L-type calcium channel beta-1 subunit (CACNLB1) gene, exon 13B and isoform beta-1B, complete cds
5948	19032	32225	0.97	0.0E+00	AF142621.1	NT	602036272F1 NCI_CGAP_Brf64 Homo sapiens cDNA clone IMAGE:4184321 5'
5947	19033	32226	2.82	0.0E+00	BE273983.1	EST_HUMAN	Homo sapiens calcium channel gamma 5 subunit (CACNG5) gene, exon 4 and complete cds
5959	19044	32243	1.14	0.0E+00	BE503096.1	EST_HUMAN	601104462F1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:3347463 5'
5963	19048	32249	1.79	0.0E+00	BF569905.1	EST_HUMAN	hz83d11.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3214581 3' similar to TR:Q62084 Q62084
5968	19053	32253	1.11	0.0E+00	AA454642.1	EST_HUMAN	PHOSPHOLIPASE C NEIGHBORING
6004	19087	32287	2.27	0.0E+00	AF217289.1	NT	602185852F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4310076 5'
6006	19089	32289	2.43	0.0E+00	BE828144.1	EST_HUMAN	z99d106.s1 Soares_NihHMPu_S1 Homo sapiens cDNA clone IMAGE:811883 3'
6011	19094	32294	0.91	0.0E+00	BE99636.1	EST_HUMAN	Homo sapiens cadherin 20 (CDH20) mRNA, complete cds
6017	19100	32302	0.53	0.0E+00	AJ289880.1	NT	RC5.E10027-210600-022-G10 E10027 Homo sapiens cDNA
6030	19113	32315	0.61	0.0E+00	BE573986.1	EST_HUMAN	601845287F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:3930463 5'
6030	19113	32316	0.61	0.0E+00	BE573986.1	EST_HUMAN	Homo sapiens KIAA0851 gene (partial), X13 gene and LZTF1 gene
6035	19118	32322	0.8	0.0E+00	AW276760.1	EST_HUMAN	7d72e11.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3278540 3' similar to SW:DAX1_HUMAN
							P51843 ORPHAN NUCLEAR RECEPTOR DAX-1. [1]:
							7d72e11.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3278540 3' similar to SW:DAX1_HUMAN
							P51843 ORPHAN NUCLEAR RECEPTOR DAX-1. [1]:
							xp65f03.x1 NCI_CGAP_Ov39 Homo sapiens cDNA clone IMAGE:2745245 3' similar to TR:P78335 P78335
							GUANYLATE KINASE ASSOCIATED PROTEIN.;

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6047	19128	32336	0.67	0.0E+00	BF031742.1	EST_HUMAN	601558060F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:3827775 5'
6047	19128	32337	0.67	0.0E+00	BF031742.1	EST_HUMAN	601558060F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:3827775 5'
6059	19140	32352	1.27	0.0E+00	AW470846.1	EST_HUMAN	ha34d06.x1 NCI CGAP_K1d12 Homo sapiens cDNA clone IMAGE:2875595 3' similar to TR:Q921N3
6072	19153	32364	0.95	0.0E+00	BF155670.1	EST_HUMAN	Q921N3 MYOSIN-RHOGAP PROTEIN, MYR 7. ;
6072	19153	32365	0.95	0.0E+00	BF155670.1	EST_HUMAN	QV4-HT0894-290900-399-a10 HT0894 Homo sapiens cDNA
6080	19160	32371	1.38	0.0E+00	W33069.1	EST_HUMAN	QV4-HT0894-290900-399-a10 HT0894 Homo sapiens cDNA
6080	19160	32372	1.38	0.0E+00	W33069.1	EST_HUMAN	z08h06.r1 Soares parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:321755 5'
6081	19161		2.28	0.0E+00	AF012618.1	NT	z08h06.r1 Soares parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:321755 5'
6084	19164	32376	2.82	0.0E+00	BE280197.1	EST_HUMAN	Homo sapiens familial mental retardation protein 2 (FMR2) gene, exon 14
6091	19170	32385	2.31	0.0E+00	BE889610.1	EST_HUMAN	801158815F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3505323 5'
6093	19172	32388	0.53	0.0E+00	BE889673.1	EST_HUMAN	8011512630F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3914238 5'
6109	19188	32408	0.63	0.0E+00	AW752848.1	EST_HUMAN	601286320F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3613085 5'
6112	19190	32410	1.46	0.0E+00	11433071	NT	IL3-GT0220-111193-028-E04 CT0220 Homo sapiens cDNA
6112	19190	32411	1.46	0.0E+00	11433071	NT	Homo sapiens KIAA0735 gene product; synaptic vesicle protein 2B homolog (KIAA0735), mRNA
6113	19191	32412	1.12	0.0E+00	BE901608.1	EST_HUMAN	Homo sapiens KIAA0735 gene product; synaptic vesicle protein 2B homolog (KIAA0735), mRNA
6113	19191	32413	1.12	0.0E+00	BE901608.1	EST_HUMAN	801677735F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3960200 5'
6113	19191	32414	1.12	0.0E+00	BE901608.1	EST_HUMAN	801677735F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3960200 5'
6129	25654	32431	9.98	0.0E+00	9789986	NT	Homo sapiens potassium voltage-gated channel, Shal-related subfamily, member 2 (KCND2), mRNA
6132	19209	32434	1.43	0.0E+00	AA193506.1	EST_HUMAN	zr40h01.r1 Soares_NbHMPu_S1 Homo sapiens cDNA clone IMAGE:665905 5' similar to
6132	19209	32434	1.43	0.0E+00	AA193506.1	EST_HUMAN	SW:YY05_HUMAN P42694 HYPOTHETICAL MYELOID CELL LINE PROTEIN 5. ;
6132	19209	32435	1.43	0.0E+00	AA193506.1	EST_HUMAN	zr40h01.r1 Soares_NbHMPu_S1 Homo sapiens cDNA clone IMAGE:665905 5' similar to
6155	19230	32460	11.54	0.0E+00	U34625.1	NT	Human T cell surface glycoprotein CD-6 mRNA, complete cds
6155	19230	32461	11.54	0.0E+00	U34625.1	NT	Human T cell surface glycoprotein CD-6 mRNA, complete cds
6157	19232	32463	0.54	0.0E+00	AW853983.1	EST_HUMAN	RC3-CT0254-110300-027-a09 CT0254 Homo sapiens cDNA
6157	19232	32464	0.54	0.0E+00	AW853983.1	EST_HUMAN	RC3-CT0254-110300-027-a09 CT0254 Homo sapiens cDNA
6197	19271	32506	1.14	0.0E+00	BE258330.1	EST_HUMAN	601114823F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3355565 5'
6207	19281	32514	1.24	0.0E+00	BE156661.1	EST_HUMAN	QV0-HT0368-090200-099-a09 HT0368 Homo sapiens cDNA
6217	19291	32524	0.53	0.0E+00	M38107.1	NT	Human neurofibromin type 1 (NF-1) mRNA, 3' end of cds
6254	19327	32558	1.71	0.0E+00	BE379007.1	EST_HUMAN	601236276F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3608490 5'
6260	19333	32564	1.19	0.0E+00	AU137772.1	EST_HUMAN	AU137772 PLACE1 Homo sapiens cDNA clone PLACE1007201 5'
6262	19354	32590	3.66	0.0E+00	U45982.1	NT	Human G protein-coupled receptor GPR-9-8 gene, complete cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6311	19382	32822	4.53	0.0E+00	AA204740.1	EST_HUMAN	zq81d03.r1 Stratagene hNT neuron (#937233) Homo sapiens cDNA clone IMAGE:648005 5' similar to TR:G854195 G854195 LEUKOCYTE SURFACE PROTEIN. ;
6312	19383	32623	4.05	0.0E+00	11545913	NT	Homo sapiens xylosyltransferase II (XT2), mRNA
6312	19383	32624	4.05	0.0E+00	11545913	NT	Homo sapiens xylosyltransferase II (XT2), mRNA
6331	19401	32642	0.56	0.0E+00	U07223.1	NT	Human beta2-chimaerin mRNA, complete cds
6349	19418	32659	8.33	0.0E+00	11426367	NT	Homo sapiens carcinoembryonic antigen-related cell adhesion molecule 8 (CEACAM8), mRNA
6353	19422	32664	3.66	0.0E+00	BE257173.1	EST_HUMAN	601109532F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3350622 5'
6369	19437		0.97	0.0E+00	AI696048.1	EST_HUMAN	891100.x1 NCI_CGAP_P128 Homo sapiens cDNA clone IMAGE:2248939 3' similar to TR:Q14839 Q14839 MI-2 PROTEIN. ;
6373	19441	32883	1.29	0.0E+00	L35930.1	NT	Human anion exchanger (AE1) gene, exons 1-20
6382	19450	32691	1.29	0.0E+00	BE797385.1	EST_HUMAN	601587971F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3942329 5'
6382	19450	32692	1.29	0.0E+00	BE797385.1	EST_HUMAN	601587971F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3942329 5'
6393	19461	32707	0.65	0.0E+00	AI198025.1	EST_HUMAN	q150b11.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:1859901 3' similar to TR:Q12838 Q12838 TFIIC ALPHA SUBUNIT ;
6393	19461	32708	0.65	0.0E+00	AI198025.1	EST_HUMAN	q150b11.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:1859901 3' similar to TR:Q12838 Q12838 TFIIC ALPHA SUBUNIT ;
6396	19464	32710	1	0.0E+00	BF357123.1	EST_HUMAN	MRO-HT0923-220800-102-b05 HT0923 Homo sapiens cDNA
6404	19472	32720	1.77	0.0E+00	11435630	NT	Homo sapiens peptide transporter 3 (LOC51296), mRNA
6414	19482	32729	0.79	0.0E+00	D55649.1	NT	Human mRNA for alpha mannosidase II isozyme, complete cds
6432	19498	32751	1	0.0E+00	AW178142.1	EST_HUMAN	IL3-HT0662-010999-014-A04 HT0062 Homo sapiens cDNA
6453	19518	32768	0.74	0.0E+00	BE674544.1	EST_HUMAN	7e02e12.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3281302 3' similar to SW:Y176_HUMAN Q14681 HYPOTHETICAL PROTEIN KIAA0176 ;
6458	19523	32774	0.88	0.0E+00	7682039	NT	Homo sapiens KIAA0285 gene product (KIAA0285), mRNA
6472	19537		8.48	0.0E+00	AV650020.1	EST_HUMAN	AV650020 GLC Homo sapiens cDNA clone GLCCAD09.3'
6481	19546	32795	3.68	0.0E+00	AW575598.1	EST_HUMAN	U1HF-BLO-acc-g-12-0-U1.s1 NIH_MGC_37 Homo sapiens cDNA clone IMAGE:3058751 3'
6484	19549	32798	5.02	0.0E+00	H01255.1	EST_HUMAN	Y27103.1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:149833 5'
6493	19558	32809	1.16	0.0E+00	11426293	NT	Homo sapiens amiloride-sensitive cation channel 1, neuronal (degenerh) (ACCN1), mRNA
6498	19562	32814	8.09	0.0E+00	X15377.1	NT	Human gene for the light and heavy chains of myeloperoxidase
6500	19564	32816	0.72	0.0E+00	AA456375.1	EST_HUMAN	aa14e07.r1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:813262 5'
6501	19565	32817	1.23	0.0E+00	AI612841.1	EST_HUMAN	tz57d08.x1 NCI_CGAP_Oy45 Homo sapiens cDNA clone IMAGE:2292687 3' similar to SW:NTCS_HUMAN
6507	19571	32823	3.93	0.0E+00	BE735989.1	EST_HUMAN	P53796 SODIUM- AND CHLORIDE-DEPENDENT CREATINE TRANSPORTER 2 ;
6507	19571	32824	3.93	0.0E+00	BE735989.1	EST_HUMAN	601305368F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3639616 5'
6511	19575	32830	0.78	0.0E+00	AW748596.1	EST_HUMAN	601305368F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3639616 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6511	19575	32831	0.78	0.0E+00	AW748596.1	EST_HUMAN	MR0-BT0264-221199-002-f11 BT0264 Homo sapiens cDNA
6512	19576		0.67	0.0E+00	U77629.1	NT	Homo sapiens Achaele-Scute homologue 2 (ASCL2) gene, complete cds
6514	19578	32833	28.27	0.0E+00	AU119245.1	EST_HUMAN	AU119245 HEMBA1 Homo sapiens cDNA clone HEMBA1005360 5'
6514	19578	32834	28.27	0.0E+00	AU119245.1	EST_HUMAN	AU119245 HEMBA1 Homo sapiens cDNA clone HEMBA1005360 5'
6519	19582	32840	0.86	0.0E+00	BE780453.1	EST_HUMAN	601468712F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3871899 5'
6520	19583	32841	1.02	0.0E+00	X92217.1	NT	H. sapiens germine immunoglobulin heavy chain, variable region, (13-2)
6537	19599	32862	1.64	0.0E+00	A1989483.1	EST_HUMAN	ws25c07.x1 NCJ_CGAP_G06 Homo sapiens cDNA clone IMAGE:2498220 3'
6551	19612	32873	1.76	0.0E+00	BE293153.1	EST_HUMAN	601105344F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2987963 5'
6551	19612	32874	1.76	0.0E+00	BE293153.1	EST_HUMAN	601105344F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2987963 5'
6584	19644	32912	0.71	0.0E+00	BE967657.1	EST_HUMAN	601443175F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847291 5'
6626	19684	32962	1.2	0.0E+00	AW406348.1	EST_HUMAN	UI-HF-BLO-eco-h-02-0-UIH1 NIH_MGC_37 Homo sapiens cDNA clone IMAGE:3059931 5'
6626	19684	32963	1.2	0.0E+00	AW406348.1	EST_HUMAN	UI-HF-BLO-eco-h-02-0-UIH1 NIH_MGC_37 Homo sapiens cDNA clone IMAGE:3059931 5'
6660	19717	32994	0.89	0.0E+00	AV719444.1	EST_HUMAN	AV719444 GLC Homo sapiens cDNA clone GLCEHC06 5'
6669	19726	33001	1.27	0.0E+00	BE989340.1	EST_HUMAN	601681150F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3951301 5'
6669	19726	33002	1.27	0.0E+00	BE989340.1	EST_HUMAN	601681150F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3951301 5'
6672	19729	33005	2.18	0.0E+00	AF190860.1	NT	Homo sapiens low voltage-activated T-type calcium channel alpha 1G splice variant CavT.1a (CACNA1G) mRNA, complete cds
6675	19732	33008	0.64	0.0E+00	L48546.1	NT	Homo sapiens tuberin (TSC2) gene, exons 38, 39, 40 and 41
6677	19734	33009	1.11	0.0E+00	11420658	NT	Homo sapiens transformation/transcription domain-associated protein (TTRAP), mRNA
6684	19741	33016	3.24	0.0E+00	AW163840.1	EST_HUMAN	au96h08.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2784159 5' similar to TR:O15390 O15390 GT24. [3] TR:O43840 TR:O43206;
6684	19741	33017	3.24	0.0E+00	AW163840.1	EST_HUMAN	au96h08.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2784159 5' similar to TR:O15390 O15390 GT24. [3] TR:O43840 TR:O43206;
6688	19745	33020	0.85	0.0E+00	W37163.1	EST_HUMAN	zb20e08.r1 Soares_fetal_lung_NbHL19W Homo sapiens cDNA clone IMAGE:302626 5' similar to SW:ZN45_HUMAN Q02386 ZINC FINGER PROTEIN 45;
6688	19745	33021	0.85	0.0E+00	W37163.1	EST_HUMAN	zb20e08.r1 Soares_fetal_lung_NbHL19W Homo sapiens cDNA clone IMAGE:302626 5' similar to SW:ZN45_HUMAN Q02386 ZINC FINGER PROTEIN 45;
6706	19762	33041	1.19	0.0E+00	BE794853.1	EST_HUMAN	601586371F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943504 5'
6713	19769	33048	4.81	0.0E+00	BE799873.1	EST_HUMAN	601586371F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3941847 5'
6714	19770	33049	3.07	0.0E+00	BE767955.1	EST_HUMAN	QV1-GN0065-140800-318-h02 GN0065 Homo sapiens cDNA
6714	19770	33050	3.07	0.0E+00	BE767955.1	EST_HUMAN	QV1-GN0065-140800-318-h02 GN0065 Homo sapiens cDNA
6718	19774	33053	7.15	0.0E+00	BE889813.1	EST_HUMAN	601512058F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3913311 5'
6718	19774	33054	7.15	0.0E+00	BE889813.1	EST_HUMAN	601512058F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3913311 5'
6727	19783	33062	5.42	0.0E+00	L24493.1	NT	Human antigen CD27 gene, exons 1-2

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6732	19788	33066	2	0.0E+00	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
6732	19788	33067	2	0.0E+00	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
6738	19794	33074	3.67	0.0E+00	6005983	NT	Homo sapiens zona pellucida glycoprotein 3A (sperm receptor) (ZP3A), mRNA
6741	19796	33076	3.87	0.0E+00	AI638412.1	EST_HUMAN	P17553 WNT-3 PROTO-ONCOGENE PROTEIN PRECURSOR. ;
6743	19798	33078	1.41	0.0E+00	L32832.1	NT	Homo sapiens zinc finger homeodomain protein (ATBF1-A) mRNA, complete cds
6755	19809	33090	0.79	0.0E+00	AW505430.1	EST_HUMAN	UIHF-BNO-ama-c-01-0-U1.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3081217 5'
6757	19811	33091	3.98	0.0E+00	AA434584.1	EST_HUMAN	zw52c03.r1 Scores_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:773668 5'
6771	19826		1.13	0.0E+00	BF217200.1	EST_HUMAN	601885317F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4103693 5'
6775	19830	33113	1.68	0.0E+00	BE925875.1	EST_HUMAN	QV3-BN0047-300800-278-c06 BN0047 Homo sapiens cDNA
6808	19862	33149	0.75	0.0E+00	11426798	NT	Homo sapiens solute carrier family 1 (high affinity aspartate/glutamate transporter), member 6 (SLC1A6), mRNA
6808	19862	33150	0.75	0.0E+00	11426798	NT	Homo sapiens solute carrier family 1 (high affinity aspartate/glutamate transporter), member 6 (SLC1A6), mRNA
6826	19880	33171	2.04	0.0E+00	AU125928	EST_HUMAN	AL125928 NT2RM4 Homo sapiens cDNA clone NT2RM4002430 5'
6828	19882	33173	0.84	0.0E+00	BE701434.1	EST_HUMAN	PM2-NN0174-260700-001-h10 NN0174 Homo sapiens cDNA
6828	19882	33174	0.84	0.0E+00	BE701434.1	EST_HUMAN	PM2-NN0174-260700-001-h10 NN0174 Homo sapiens cDNA
6851	19904	33189	1.46	0.0E+00	BE142363.1	EST_HUMAN	GM0-HT0143-270999-062-d08 HT0143 Homo sapiens cDNA
6873	19926	33222	1.01	0.0E+00	BE008012.1	EST_HUMAN	RCO-BN0121-280300-032-e04 BN0121 Homo sapiens cDNA
6873	19926	33223	1.01	0.0E+00	BE008012.1	EST_HUMAN	RCO-BN0121-280300-032-e04 BN0121 Homo sapiens cDNA
6901	19953	33250	7.7	0.0E+00	BE169131.1	EST_HUMAN	PM3-HT0520-230200-002-c08 HT0520 Homo sapiens cDNA
6903	19955	33252	3.49	0.0E+00	BF085687.1	EST_HUMAN	IL5-GN0032-180900-145-d07 GN0032 Homo sapiens cDNA
6943	20167	33490	3.27	0.0E+00	AA190755.1	EST_HUMAN	zp886d03.r1 Striatogene HeLa cell s3 937216 Homo sapiens cDNA clone IMAGE:627282 5'
6954	20179	33504	1.04	0.0E+00	U39573.1	NT	Human salivary peroxidase mRNA, complete cds
6958	20183	33506	0.7	0.0E+00	BE671887.1	EST_HUMAN	7e49b07.x1 NCL_CGAP_GC6 Homo sapiens cDNA clone IMAGE:3222037 3' similar to TR:Q9Z285 Q9Z285 TEKTIN. ;
6970	20193	33520	6.96	0.0E+00	A1940621.1	EST_HUMAN	IL3-ST0024-230799-001-B01 ST0024 Homo sapiens cDNA
6970	20193	33521	6.96	0.0E+00	A1940621.1	EST_HUMAN	IL3-ST0024-230799-001-B01 ST0024 Homo sapiens cDNA
6984	20207	33537	1.98	0.0E+00	11435626	NT	Homo sapiens CD6 antigen (CD6), mRNA
6998	20124	33439	1.01	0.0E+00	AL042443.1	EST_HUMAN	DKFZP434D2021_r1_434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434D2021 5'
6999	20125	33440	47.69	0.0E+00	X56163.1	NT	H. sapiens immunoglobulin heavy chain gene, variable region
7002	20128	33443	0.84	0.0E+00	A168270.1	EST_HUMAN	oo10d01.x1 Scores_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:1565761 3' similar to TR:Q26623 Q26623 TEKTIN C1. ;
7007	20133	33448	0.92	0.0E+00	BE734087.1	EST_HUMAN	601567370F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3842080 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7030	18362	31249	1.17	0.0E+00	BE566381.1	EST_HUMAN	601339677F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3682267 5'
7040	18372	31259	12.91	0.0E+00	BE867889.1	EST_HUMAN	601443667F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847697 5'
7040	18372	31260	12.91	0.0E+00	BE867889.1	EST_HUMAN	601443667F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847697 5'
7048	20070	33376	1.94	0.0E+00	BE550162.1	EST_HUMAN	7b49f03.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3231581 3' similar to SW:GG95_HUMAN Q08379 GOLGIN-95.
7048	20070	33377	1.94	0.0E+00	BE550162.1	EST_HUMAN	7b49f03.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3231581 3' similar to SW:GG95_HUMAN Q08379 GOLGIN-95.
7074	20096	33406	2.29	0.0E+00	BF088376.1	EST_HUMAN	CMT1-HT0877-060900-397-g11 HT0877 Homo sapiens cDNA
7081	20102	33413	1.41	0.0E+00	AA195106.1	EST_HUMAN	z034g03.r1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:665332 5'
7088	20022		11.47	0.0E+00	11034810	NT	Homo sapiens catenin (cadherin-associated protein), delta 2 (neural plakophilin-related arm-repeat protein) (CTNND2), mRNA
7090	20024	33326	0.91	0.0E+00	11431474	NT	Homo sapiens sodium channel, nonvoltage-gated 1, beta (Liddle syndrome) (SCNN1B), mRNA
7092	20026	33329	0.76	0.0E+00	BE313075.1	EST_HUMAN	601150662F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3503391 5'
7092	20026	33330	0.76	0.0E+00	BE313075.1	EST_HUMAN	601150662F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3503391 5'
7106	20040	33342	3.08	0.0E+00	BF569905.1	EST_HUMAN	602185852F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4310076 5'
7114	20048	33350	0.61	0.0E+00	4557364	NT	Homo sapiens Bloom syndrome (BLM) mRNA
7122	20056		2.02	0.0E+00	J03069.1	NT	Human MYCL2 gene, complete cds
7132	20108	33419	3.33	0.0E+00	AF217289.1	NT	Homo sapiens cadherin 20 (CDH20) mRNA, complete cds
7132	20108	33420	3.33	0.0E+00	AF217289.1	NT	Homo sapiens cadherin 20 (CDH20) mRNA, complete cds
7133	20109	33421	1.77	0.0E+00	M38113.1	NT	Human neurofibromatosis type 1 gene, exon x6
7146	18378	31266	3.02	0.0E+00	11420773	NT	Homo sapiens melanoma antigen, family B, 2 (MAGEB2), mRNA
7147	18379	31267	0.57	0.0E+00	A1419889.1	EST_HUMAN	tg53c06.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2112490 3' similar to SW:OXYB_HUMAN P22059 OXYSTEROL-BINDING PROTEIN.
7147	18379	31268	0.57	0.0E+00	A1419889.1	EST_HUMAN	tg53c06.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2112490 3' similar to SW:OXYB_HUMAN P22059 OXYSTEROL-BINDING PROTEIN.
7152	18384	31272	0.66	0.0E+00	BE266708.1	EST_HUMAN	601115515F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3356330 5'
7173	18404	31202	1.21	0.0E+00	AU118478.1	EST_HUMAN	AU118478 HEMBA1 Homo sapiens cDNA clone HEMBA1003679 5'
7176	18407	31206	5.02	0.0E+00	BE262941.1	EST_HUMAN	601146954F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3501829 5'
7177	18408	31207	2.25	0.0E+00	Z37976.1	NT	H.sapiens mRNA for latent transforming growth factor-beta binding protein (LTBP-2)
7177	18408	31208	2.25	0.0E+00	Z37976.1	NT	H.sapiens mRNA for latent transforming growth factor-beta binding protein (LTBP-2)
7178	18409	31209	3.32	0.0E+00	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
7178	18409	31210	3.32	0.0E+00	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
7185	18416	31217	1.33	0.0E+00	AF310105.1	NT	Homo sapiens NALP1 mRNA, complete cds
7187	18418	31219	0.59	0.0E+00	BF130916.1	EST_HUMAN	601819722F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:4051709 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7192	20216	33546	0.57	0.0E+00	BE762770.1	EST_HUMAN	QV3-NT0022-140600-223-101 NT0022 Homo sapiens cDNA
7198	20222	33553	2.39	0.0E+00	BF568905.1	EST_HUMAN	602185652F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4310076 5'
7200	20224	33555	0.68	0.0E+00	AJ404468.1	NT	Homo sapiens mRNA for dynein heavy chain (DNAH9 gene)
7200	20224	33556	0.68	0.0E+00	AJ404468.1	NT	Homo sapiens mRNA for dynein heavy chain (DNAH9 gene)
7204	20228	33561	4.32	0.0E+00	L01978.1	NT	Human type IV sodium channel alpha polypeptide (SCN4A) gene, exon 19
7209	20232	33565	1.49	0.0E+00	AW502362.1	EST_HUMAN	UI-HF-BR0p-aka-3-10-0-U1.r1 NIH_MGC_52 Homo sapiens cDNA clone IMAGE:3076290 5'
7209	20232	33568	1.49	0.0E+00	AW502362.1	EST_HUMAN	UI-HF-BR0p-aka-3-10-0-U1.r1 NIH_MGC_52 Homo sapiens cDNA clone IMAGE:3076290 5'
7218	20240	33574	0.93	0.0E+00	AL039581.1	EST_HUMAN	DKFZp434D2211_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434D2211 5'
7218	20240	33575	0.93	0.0E+00	AL039581.1	EST_HUMAN	DKFZp434D2211_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434D2211 5'
7227	20249	33583	5.15	0.0E+00	BF306896.1	EST_HUMAN	601889823F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4123948 5'
7233	20254	33588	2.16	0.0E+00	U41302.1	NT	Human chromosome 18 creatine transporter (SLC6A8) and (CDM) paralogous genes, complete cds
7275	20010	33312	1.21	0.0E+00	AL049784.1	NT	Novel human gene mapping to chromosome 13
7315	20286	33627	0.69	0.0E+00	AB026893.1	NT	Homo sapiens mRNA for vascular cadherin-2, complete cds
7315	20286	33628	0.69	0.0E+00	AB026893.1	NT	Homo sapiens mRNA for vascular cadherin-2, complete cds
7320	20291	33634	0.68	0.0E+00	AU137738.1	EST_HUMAN	AU137738 PLACE1 Homo sapiens cDNA clone PLACE1007120 5'
7320	20291	33635	0.68	0.0E+00	AU137738.1	EST_HUMAN	AU137738 PLACE1 Homo sapiens cDNA clone PLACE1007120 5'
7326	20297	33641	1.23	0.0E+00	AW954806.1	EST_HUMAN	EST366876 MAGC resequences, MAGC Homo sapiens cDNA
7327	20298	33642	1.14	0.0E+00	BE254103.1	EST_HUMAN	601113958F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3354566 5'
7340	20311	33654	1.23	0.0E+00	L01973.1	NT	Human type VI sodium channel alpha polypeptide (SCN4A) gene, exon 14
7348	20318	33664	0.68	0.0E+00	AB007935.1	NT	Homo sapiens mRNA for KIAA0468 protein, partial cds
7348	20318	33665	0.68	0.0E+00	AB007935.1	NT	Homo sapiens mRNA for KIAA0468 protein, partial cds
7354	20324	33672	1.38	0.0E+00	AU133213.1	EST_HUMAN	AU133213 NT2RP4 Homo sapiens cDNA clone NT2RP4001556 5'
7370	20340	33692	1	0.0E+00	11428081	NT	Homo sapiens membrane protein CH1 (CH1), mRNA
7375	20345		2.24	0.0E+00	AU143706.1	EST_HUMAN	AU143706 Y79AA1 Homo sapiens cDNA clone Y79AA1002365 5'
7376	20346	33697	0.96	0.0E+00	4758839	NT	Homo sapiens netrin 1 (NTN1), mRNA
7385	20355	33706	1.34	0.0E+00	BE891286.1	EST_HUMAN	601431819F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3917164 5'
7385	20355	33707	1.34	0.0E+00	BE891286.1	EST_HUMAN	601431819F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3917164 5'
7407	18430	31181	2.28	0.0E+00	AF137286.1	NT	Homo sapiens keratin 12 (KRT12) gene, complete cds
7407	18430	31182	2.28	0.0E+00	AF137286.1	NT	Homo sapiens keratin 12 (KRT12) gene, complete cds
7419	20386	33736	0.7	0.0E+00	BE747231.1	EST_HUMAN	601580949F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3929722 5'
7419	20386	33737	0.7	0.0E+00	BE747231.1	EST_HUMAN	601580949F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3929722 5'
7432	20399	33751	4.41	0.0E+00	11436699	NT	Homo sapiens vitamin D (1,25-dihydroxyvitamin D3) receptor (VDR), mRNA
7432	20399	33752	4.41	0.0E+00	11436699	NT	Homo sapiens vitamin D (1,25-dihydroxyvitamin D3) receptor (VDR), mRNA

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7447	20413	33766	0.65	0.0E+00	AF227744.1	NT	Homo sapiens voltage-dependent calcium channel alpha 1G subunit isoform a8 (CACNA1G) mRNA, complete cds
7469	20435	33791	36.24	0.0E+00	A1128344.1	EST_HUMAN	qc87a07.x1 Soares_placenta_8109weeks_2NbHP80c9W Homo sapiens cDNA clone IMAGE:1714644 3' similar to SW:ARSD_HUMAN P51689 ARYL SULFATASE D PRECURSOR ; contains element HGR repetitive element ;
7469	20435	33792	36.24	0.0E+00	A1128344.1	EST_HUMAN	qc87a07.x1 Soares_placenta_8109weeks_2NbHP80c9W Homo sapiens cDNA clone IMAGE:1714644 3' similar to SW:ARSD_HUMAN P51689 ARYL SULFATASE D PRECURSOR ; contains element HGR repetitive element ;
7472	20438	33795	0.82	0.0E+00	AF227135.1	NT	Homo sapiens candidate taste receptor T2R9 gene, complete cds
7472	20438	33796	0.82	0.0E+00	AF227135.1	NT	Homo sapiens candidate taste receptor T2R9 gene, complete cds
7475	20441	33799	5.42	0.0E+00	11426392	NT	Homo sapiens myosin, heavy polypeptide 8, skeletal muscle, perinatal (MYH8), mRNA
7475	20441	33800	5.42	0.0E+00	11426392	NT	Homo sapiens myosin, heavy polypeptide 8, skeletal muscle, perinatal (MYH8), mRNA
7478	20444		13.74	0.0E+00	BF337375.1	EST_HUMAN	602035089F1 NCI_CGAP_Brn64 Homo sapiens cDNA clone IMAGE:4182839 5'
7480	20446	33802	2.75	0.0E+00	AA128453.1	EST_HUMAN	zn60f09.r1 Stratagene muscle 937209 Homo sapiens cDNA clone IMAGE:562601 5' similar to TR:G806562 G806562 NEBULIN ;
7485	20450	33808	0.75	0.0E+00	AL079497.1	EST_HUMAN	DKFZp434B0226_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434B0226 5'
7485	20450	33809	0.75	0.0E+00	AL079497.1	EST_HUMAN	DKFZp434B0226_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434B0226 5'
7496	20461	33821	0.57	0.0E+00	AJ270996.1	NT	Homo sapiens partial mRNA for LTRPC5 protein (LTRPC5 gene)
7530	20493	33855	1.12	0.0E+00	BE295499.1	EST_HUMAN	601174576F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3529794 5'
7532	20495	33856	0.9	0.0E+00	11427965	NT	Homo sapiens hypothetical protein (FLJ20281), mRNA
7535	20498		1.46	0.0E+00	AU118607.1	EST_HUMAN	AU118607 HEMBA1 Homo sapiens cDNA clone HEMBA1003969 5'
7536	20499	33859	2.02	0.0E+00	AF005213.1	NT	Homo sapiens ankyrin 1 (ANK1) mRNA, complete cds
7536	20499	33860	2.02	0.0E+00	AF005213.1	NT	Homo sapiens ankyrin 1 (ANK1) mRNA, complete cds
7547	20510	33868	0.85	0.0E+00	AF245505.1	NT	Homo sapiens adican mRNA, complete cds
7555	20518	33873	7.23	0.0E+00	X70172.1	NT	H.sapiens DNA for ZNGP2 pseudogene, exon 4
7557	20520	33875	6.84	0.0E+00	U45448.1	NT	Human P2x1 receptor mRNA, complete cds
7557	20520	33876	6.84	0.0E+00	U45448.1	NT	Human P2x1 receptor mRNA, complete cds
7570	20533	33891	0.81	0.0E+00	AW956503.1	EST_HUMAN	EST368573 MAGC resequences, MAGD Homo sapiens cDNA
7572	20535	33893	2.85	0.0E+00	AW950516.1	EST_HUMAN	EST362586 MAGC resequences, MAGA Homo sapiens cDNA
7599	20560	33920	0.79	0.0E+00	AF001543.1	EST_HUMAN	AF001543 Human cDNA (Chandrasekharappa,S.C.) Homo sapiens cDNA clone kappa_200
7599	20560	33921	0.79	0.0E+00	AF001543.1	EST_HUMAN	AF001543 Human cDNA (Chandrasekharappa,S.C.) Homo sapiens cDNA clone kappa_200
7599	20560	33922	0.79	0.0E+00	AF001543.1	EST_HUMAN	AF001543 Human cDNA (Chandrasekharappa,S.C.) Homo sapiens cDNA clone kappa_200
7623	20583		0.62	0.0E+00	M90354.1	NT	Human BTIF3 protein homologue gene, complete cds
7624	20584	33947	0.72	0.0E+00	BE408283.1	EST_HUMAN	601302879F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3637434 5'

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Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7635	20595	33958	0.5	0.0E+00	AW402542.1	EST_HUMAN	UI-HF-BK0-eas-g-07-0-UI.r1 NIH_MGC_36 Homo sapiens cDNA clone IMAGE:3054924 5'
7663	20613		1.3	0.0E+00	R87430.1	EST_HUMAN	ym88h10.r1 Soares adult brain N2b4HB55Y Homo sapiens cDNA clone IMAGE:166051 5'
							x639a05.v1 NCI CGAP Lu31 Homo sapiens cDNA clone IMAGE:2578640 5' similar to TR:Q08050 Q08050
7654	20614	33978	2.42	0.0E+00	AW239326.1	EST_HUMAN	HN3/3FH TRANSCRIPTION FACTOR GENESIS :
7676	20634		1.21	0.0E+00	AU117553.1	EST_HUMAN	AU117553 HEMBA1 Homo sapiens cDNA clone HEMBA1001661 5'
7678	20636	33998	3.92	0.0E+00	11427135	NT	Homo sapiens glucagon-like peptide 2 receptor (GLP2R), mRNA
7697	20655	34019	1.76	0.0E+00	AA211663.1	EST_HUMAN	zn56f02.r1 Stratagene muscle 937209 Homo sapiens cDNA clone IMAGE:562203 5' similar to gb:X03740
7703	20660	34024	0.86	0.0E+00	BF229235.1	EST_HUMAN	MYOSIN HEAVY CHAIN, SKELETAL MUSCLE (HUMAN);
7710	20667	34034	0.62	0.0E+00	AW996499.1	EST_HUMAN	MRO-AN0083-270900-004-107 AN0083 Homo sapiens cDNA
7713	20670	34037	0.81	0.0E+00	L32832.1	NT	QV3-BN0046-220300-128-e04 BN0046 Homo sapiens cDNA
7740	20694	34058	1.17	0.0E+00	BF308996.1	EST_HUMAN	Homo sapiens zinc finger homeodomain protein (ATBF1-A) mRNA, complete cds
7740	20694	34059	1.17	0.0E+00	BF308996.1	EST_HUMAN	601889823F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4123948 5'
7750	20703	34071	1.24	0.0E+00	AU118767.1	EST_HUMAN	601889823F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4123948 5'
7782	20735	34107	0.49	0.0E+00	AW499551.1	EST_HUMAN	AU118767 HEMBA1 Homo sapiens cDNA clone HEMBA1004314 5'
7809	20758	34132	0.84	0.0E+00	AB002355.1	NT	UI-HF-BR0p-ajle-10-0-UI.r1 NIH_MGC_52 Homo sapiens cDNA clone IMAGE:3074778 5'
							Human mRNA for KIAA0357 gene, partial cds
7810	20759	34133	4.06	0.0E+00	A1752561.1	EST_HUMAN	cn17d05.x1 Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NHTBC_cn17d05 random
7810	20759	34134	4.06	0.0E+00	A1752561.1	EST_HUMAN	cn17d05.x1 Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NHTBC_cn17d05 random
7879	20823	34200	0.53	0.0E+00	AA399959.1	EST_HUMAN	zu68b07.r1 Soares testis NHT Homo sapiens cDNA clone IMAGE:743125 5'
7879	20823	34201	0.53	0.0E+00	AA399959.1	EST_HUMAN	zu68b07.r1 Soares testis NHT Homo sapiens cDNA clone IMAGE:743125 5'
7880	20824	34202	0.53	0.0E+00	AL046347.2	EST_HUMAN	DKFZp434J087_r1 434 (synonym: hlae3) Homo sapiens cDNA clone DKFZp434J087 5'
7897	20840	34221	1.22	0.0E+00	AF064205.1	NT	Homo sapiens dynactin 1 (DCTN1) gene, alternatively spliced products, exons 7 through 32 and complete cds
7897	20840	34222	1.22	0.0E+00	AF064205.1	NT	Homo sapiens dynactin 1 (DCTN1) gene, alternatively spliced products, exons 7 through 32 and complete cds
7905	20848	34233	1.06	0.0E+00	U74315.1	EST_HUMAN	HSU74315 Human chromosome 14 Homo sapiens cDNA clone 1-4
7919	20862	34250	0.59	0.0E+00	BE439545.1	EST_HUMAN	HTM1-183F1 HTM1 Homo sapiens cDNA
7920	20863	34251	1.03	0.0E+00		NT	Homo sapiens sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A (SEMA5A), mRNA
7939	20881	34271	0.5	0.0E+00	BF569905.1	EST_HUMAN	602185852F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4310076 5'
							wb17g05.x1 NCI CGAP_G06 Homo sapiens cDNA clone IMAGE:2305976 3' similar to TR:O75363 O75363
7950	20891	34282	0.73	0.0E+00	A1825504.1	EST_HUMAN	A1BC1 ;

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Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7950	20891	34283	0.73	0.0E+00	A1825504.1	EST_HUMAN	wb17g05.x1 NCI_CGAP_GC8 Homo sapiens cDNA clone IMAGE:2305976 3' similar to TR:O75363 O75363 A1BC1.
7958	20899	34292	3.09	0.0E+00	6912735	NT	Homo sapiens transient receptor potential channel 5 (TRPC5), mRNA
7965	20904	34296	0.96	0.0E+00	N76126.1	EST_HUMAN	zab6a05.s1 Soares fetal_lung_NbHL19W Homo sapiens cDNA clone IMAGE:299456 3'
7971	20910	34300	5.4	0.0E+00	BF217905.1	EST_HUMAN	601885465F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4103729 5'
7976	20915	34306	0.53	0.0E+00	BF568962.1	EST_HUMAN	602185808F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4310256 5'
7981	20920	34311	3.8	0.0E+00	AU129622	EST_HUMAN	AU129622 NT2RP2 Homo sapiens cDNA clone NT2RP2005913 5'
8006	25693	34338	0.97	0.0E+00	AW069274.1	EST_HUMAN	cr42e09.x1 Jia bone marrow stroma Homo sapiens cDNA clone HBMSC_cr42e09 3'
8006	25693	34339	0.97	0.0E+00	AW069274.1	EST_HUMAN	cr42e09.x1 Jia bone marrow stroma Homo sapiens cDNA clone HBMSC_cr42e09 3'
8010	20948	34341	6.56	0.0E+00	4501848	NT	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA
8017	20955	34348	1.05	0.0E+00	AV758467.1	EST_HUMAN	AU758467 BM Homo sapiens cDNA clone BMFBGG05 5'
8020	20957	34350	5.84	0.0E+00	BE739870.1	EST_HUMAN	601593156F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3947365 5'
8020	20957	34351	5.84	0.0E+00	BE739870.1	EST_HUMAN	601593156F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3947365 5'
8021	20958	34352	0.88	0.0E+00	6912461	NT	Homo sapiens atrophin-1 interacting protein 1; activin receptor interacting protein 1 (KIAA0705), mRNA
8021	20958	34353	0.88	0.0E+00	6912461	NT	Homo sapiens atrophin-1 interacting protein 1; activin receptor interacting protein 1 (KIAA0705), mRNA
8022	20959	34354	3.3	0.0E+00	AU120424.1	EST_HUMAN	AU120424 HEMBB1 Homo sapiens cDNA clone HEMBB1000655 5'
8022	20959	34355	3.3	0.0E+00	AU120424.1	EST_HUMAN	AU120424 HEMBB1 Homo sapiens cDNA clone HEMBB1000655 5'
8048	20985	34381	2.13	0.0E+00	BF590267.1	EST_HUMAN	nb22c04.x1 Soares NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:326321 4 3' similar to contains element TAR1 repetitive element;
8060	20987	34393	1.52	0.0E+00	BE787610.1	EST_HUMAN	601481713F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3884258 5'
8060	20987	34394	1.52	0.0E+00	BE787610.1	EST_HUMAN	601481713F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3884258 5'
8101	21037	34437	0.54	0.0E+00	AW956307.1	EST_HUMAN	EST366377 MAGE resequences, MAGD Homo sapiens cDNA
8123	21050	34458	0.52	0.0E+00	Y16795.1	NT	Homo sapiens psihHaA pseudogene
8129	21068	34466	0.49	0.0E+00	11425128	NT	Homo sapiens similar to ER to nucleus signalling 1 (H. sapiens) (LOC63433), mRNA
8130	21067	34467	0.69	0.0E+00	AU117333.1	EST_HUMAN	AU117333 HEMBA1 Homo sapiens cDNA clone HEMBA1001175 5'
8131	21068		0.52	0.0E+00	BE613963.1	EST_HUMAN	601504084F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3905733 5'
8146	21083	34482	4.38	0.0E+00	AW968044.1	EST_HUMAN	EST380119 MAGE resequences, MAGJ Homo sapiens cDNA
8147	21084	34483	0.75	0.0E+00	AU133435.1	EST_HUMAN	HA2043 Human fetal liver cDNA library Homo sapiens cDNA
8186	21156	34565	0.64	0.0E+00	AU133187.1	EST_HUMAN	AU133187 NT2RP2 Homo sapiens cDNA clone NT2RP2001607 5'
8231	21200		0.55	0.0E+00	BF217200.1	EST_HUMAN	601885317F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4103693 5'
8244	21213	34620	0.87	0.0E+00	BE313013.1	EST_HUMAN	601150347F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3503050 5'
8256	21225	34635	1.09	0.0E+00	AA149791.1	EST_HUMAN	z001c08.r1 Stragene cdon (#637204) Homo sapiens cDNA clone IMAGE:568410 5'

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8288	21237	34648	0.88	0.0E+00	BF026528.1	EST_HUMAN	601672310F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3985131 5'
8281	21250	34662	0.52	0.0E+00	AA017021.1	EST_HUMAN	z633n08.r1 Soares retina N2b4HR Homo sapiens cDNA clone IMAGE:360831 5'
8289	21268	34680	2.26	0.0E+00	BE736046.1	EST_HUMAN	601305658F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3639903 5'
8314	21283	34695	2.42	0.0E+00	M34872.1	NT	Human amyloid-beta protein (APP) gene, exon 11
8314	21283	34696	2.42	0.0E+00	M34872.1	NT	Human amyloid-beta protein (APP) gene, exon 11
8344	21313	34727	0.74	0.0E+00	AW674581.1	EST_HUMAN	b634d02.yt NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2985123 5' similar to TR:084652 O64652
8344	21313	34728	0.74	0.0E+00	AW674581.1	EST_HUMAN	F17K2.26 PROTEIN ; b634d02.yt NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2985123 5' similar to TR:084652 O64652
8351	21320	34734	2.47	0.0E+00	AA397551.1	EST_HUMAN	z881b04.r1 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:728719 5' similar to TR:G300482
8353	21322	34735	0.92	0.0E+00	AW387131.1	EST_HUMAN	G300482 POL-REVERSE TRANSCRIPTASE HOMOLOG [RETROVIRAL ELEMENT] ;
8356	21325		0.92	0.0E+00	AB020691.1	NT	MFO-ST0031-061099-003-at11 ST0031 Homo sapiens cDNA
8357	21326	34737	7.99	0.0E+00	AU142402	EST_HUMAN	Homo sapiens mRNA for KIAA0884 protein, partial cds
8361	21330	34741	1.12	0.0E+00	BE388421.1	EST_HUMAN	AU142402 Y79AA1 Homo sapiens cDNA clone Y79AA1000277 5'
8361	21330	34742	1.12	0.0E+00	BE388421.1	EST_HUMAN	601285550F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3607237 5'
8376	21345	34756	0.49	0.0E+00	7657278	NT	601285550F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3607237 5'
8378	21347	34758	0.92	0.0E+00	W95278.1	EST_HUMAN	Homo sapiens killer cell immunoglobulin-like receptor, two domains, short cytoplasmic tail, 1 (KIR2DS1), mRNA
8378	21347	34759	0.92	0.0E+00	W95278.1	EST_HUMAN	z605d01.r1 Soares fetal heart_NbHH19W Homo sapiens cDNA clone IMAGE:358081 5'
8380	21349		17.98	0.0E+00	BF673096.1	EST_HUMAN	z605d01.r1 Soares fetal heart_NbHH19W Homo sapiens cDNA clone IMAGE:358081 5'
8384	21353	34776	0.95	0.0E+00	AU134114	EST_HUMAN	602153008F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4294128 5'
8398	21367	34777	1.71	0.0E+00	BF525534.1	EST_HUMAN	AU134114 OVARG1 Homo sapiens cDNA clone OVARG1001296 5'
8430	21399	34810	1.65	0.0E+00	AL120124.1	EST_HUMAN	602069632F1 NCI_CGAP_Brm64 Homo sapiens cDNA clone IMAGE:4212727 5'
8430	21399	34811	1.65	0.0E+00	AL120124.1	EST_HUMAN	602069632F1 NCI_CGAP_Brm64 Homo sapiens cDNA clone IMAGE:4212727 5'
8473	21442		1.24	0.0E+00	BE877693.1	EST_HUMAN	DKFZp761P092_r1 761 (synonym: harny2) Homo sapiens cDNA clone DKFZp761P092 5'
8497	21465	34881	1.91	0.0E+00	AW500549.1	EST_HUMAN	DKFZp761P092_r1 761 (synonym: harny2) Homo sapiens cDNA clone DKFZp761P092 5'
8505	21473	34887	10.07	0.0E+00	AW157233.1	EST_HUMAN	601485254F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3887773 5'
8523	21491	34906	0.87	0.0E+00	AW072395.1	EST_HUMAN	UI-HF-BND-ek4-f-01-0-UI.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3077496 5'
8541	21509	34926	1.06	0.0E+00	11421722	NT	au83b08.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2783799 3' similar to
8544	21512	34929	0.83	0.0E+00	W01616.1	EST_HUMAN	TR:O60463 O60463 TYPE-2 PHOSPHATIDIC ACID PHOSPHOHYDROLASE. [1] ; x607d12.x1 Soares NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2867639 3' similar to contains element ORF repetitive element ;
							Homo sapiens centrosomal protein 2 (CEP2), mRNA
							z636d05.r1 Soares fetal liver spleen TNFLS Homo sapiens cDNA clone IMAGE:284633 5'

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Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8546	21514	34931	1.26	0.0E+00	BE745597.1	EST_HUMAN	601578195F1 NIH_MGC 9 Homo sapiens cDNA clone IMAGE:3926998 5'
8548	21514	34932	1.26	0.0E+00	BE745597.1	EST_HUMAN	601578195F1 NIH_MGC 9 Homo sapiens cDNA clone IMAGE:3926998 5'
8559	21527	34946	1.2	0.0E+00	AJ271735.1	NT	Homo sapiens Xq pseudautosomal region; segment 1/2
8578	21546	34965	0.44	0.0E+00	D45032.1	NT	Human DNA for ceruloplasmin, exon 5
8599	21567	34983	1.08	0.0E+00	AI367350.1	EST_HUMAN	q195c12.x1 NCL_CGAP_U12 Homo sapiens cDNA clone IMAGE:1989334 3' similar to TR:Q14673 Q14673 KIAA0104 PROTEIN.
8610	21578	34984	2.6	0.0E+00	BE674157.1	EST_HUMAN	7d78a04.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3278862 3' similar to TR:O95783 O95793 STAU7EN PROTEIN.
8612	21580	34986	1.22	0.0E+00	AI885671.1	EST_HUMAN	wf60b10.x1 NCL_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2429275 3' similar to SW:COGT_HUMAN P50281 MATRIX METALLOPROTEINASE-14 PRECURSOR.
8625	21593	35012	1.29	0.0E+00	BE563650.1	EST_HUMAN	601334790F1 NIH_MGC 39 Homo sapiens cDNA clone IMAGE:3688655 5'
8625	21593	35013	1.29	0.0E+00	BE563650.1	EST_HUMAN	601334790F1 NIH_MGC 39 Homo sapiens cDNA clone IMAGE:3688655 5'
8633	21601	35023	1.93	0.0E+00	11427235	NT	Homo sapiens Chediak-Higashi syndrome 1 (CHS1), mRNA
8633	21601	35024	1.93	0.0E+00	11427235	NT	Homo sapiens Chediak-Higashi syndrome 1 (CHS1), mRNA
8635	21603	35026	1.35	0.0E+00	AA403192.1	EST_HUMAN	z66f02.r1 Soares_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:758619 5' similar to TR:G1304132 G1304132 TPRD.
8635	21603	35027	1.35	0.0E+00	AA403192.1	EST_HUMAN	z66f02.r1 Soares_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:758619 5' similar to TR:G1304132 G1304132 TPRD.
8676	21644		3.69	0.0E+00	AA398511.1	EST_HUMAN	PROHIBITIN (HUMAN).
8685	21653	35076	0.53	0.0E+00	BE837593.1	EST_HUMAN	RC2-FN0084-120600-013-h07 FN0094 Homo sapiens cDNA
8686	21654	35077	1.25	0.0E+00	AW364874.1	EST_HUMAN	QV3-DT0045-221289-046-c07 DT0045 Homo sapiens cDNA
8686	21654	35078	1.25	0.0E+00	AW364874.1	EST_HUMAN	QV3-DT0045-221289-046-c07 DT0045 Homo sapiens cDNA
8705	21673	35097	1.26	0.0E+00	BE612586.1	EST_HUMAN	601452412F1 NIH_MGC 66 Homo sapiens cDNA clone IMAGE:3856179 5'
8705	21673	35098	1.26	0.0E+00	BE612586.1	EST_HUMAN	601452412F1 NIH_MGC 66 Homo sapiens cDNA clone IMAGE:3856179 5'
8720	21688	35115	1.65	0.0E+00	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
8720	21688	35116	1.65	0.0E+00	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
8730	21698	35123	0.7	0.0E+00	AI894477.1	EST_HUMAN	wm33a11.x1 NCL_CGAP_U14 Homo sapiens cDNA clone IMAGE:2437724 3' similar to TR:O75457 O75457 CYTOSOLIC PHOSPHOLIPASE A2-GANMA.
8737	21705	35128	0.85	0.0E+00	AA502294.1	EST_HUMAN	ne25d10.s1 NCL_CGAP_C03 Homo sapiens cDNA clone IMAGE:882259 3' similar to TR:G1136434 G1136434 KIAA0187 PROTEIN.
8742	21710		0.57	0.0E+00	11416789	NT	Homo sapiens probocadherin beta 3 (PCDH83), mRNA
8749	21717	35140	0.99	0.0E+00	AI580780.1	EST_HUMAN	fa04f11.x1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:2043117 3'
8752	21720		1.97	0.0E+00	BE890797.1	EST_HUMAN	601431238F1 NIH_MGC 72 Homo sapiens cDNA clone IMAGE:3916569 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8778	21745	35168	0.55	0.0E+00	AW245765.1	EST_HUMAN	2822701.5prime NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2822701 5'
8778	21745	35167	0.55	0.0E+00	AW245765.1	EST_HUMAN	2822701.5prime NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2822701 5'
8779	21748	35168	2.62	0.0E+00	4758695	NT	Homo sapiens mitogen-activated protein kinase kinase kinase 13 (MAP3K13), mRNA
8779	21748	35168	2.62	0.0E+00	4758695	NT	Homo sapiens mitogen-activated protein kinase kinase kinase 13 (MAP3K13), mRNA
8783	21750	35172	0.52	0.0E+00	U88084.1	NT	Human zinc finger protein (ZNF165), gene, exons 2 and 3
8783	21750	35173	0.52	0.0E+00	U88084.1	NT	Human zinc finger protein (ZNF165), gene, exons 2 and 3
8851	21818	35238	1.02	0.0E+00	AJ251760.1	NT	Homo sapiens NESP55, GNAS1 antisense (partial) and XLaiphas (partial) genes
8856	21823	35244	3	0.0E+00	X98922.1	NT	H. sapiens mRNA for gamma-glutamyltransferase
8856	21823	35245	3	0.0E+00	X98922.1	NT	H. sapiens mRNA for gamma-glutamyltransferase
8858	21823	35246	3	0.0E+00	X98922.1	NT	H. sapiens mRNA for gamma-glutamyltransferase
8871	21838	35260	1.82	0.0E+00	U82879.1	NT	Human immunoglobulin-like transcript-3 mRNA, complete cds
8913	21879	35305	1.16	0.0E+00	AF022655.1	NT	Homo sapiens cep250 centrosome associated protein mRNA, complete cds
8913	21879	35306	1.16	0.0E+00	AF022655.1	NT	Homo sapiens cep250 centrosome associated protein mRNA, complete cds
8916	21882	35308	0.88	0.0E+00	AU131871.1	EST_HUMAN	AU131871 NT2RP3 Homo sapiens cDNA clone NT2RP3003016 5'
8931	21897	35325	0.81	0.0E+00	11426572	NT	Homo sapiens immunoglobulin superfamily, member 2 (IGSF2), mRNA
8935	21901		1.53	0.0E+00	AW513513.1	EST_HUMAN	xc48e01.x1 NCI_CGAP_U11 Homo sapiens cDNA clone IMAGE:2707032 3' similar to gb:M14123_cds4
8937	21903		0.55	0.0E+00	BE783232.1	EST_HUMAN	RETROVIRUS-RELATED POL POLYPROTEIN (HUMAN);
8938	21904	35328	11.32	0.0E+00	D52650.1	EST_HUMAN	HUM084C02B Clontech human fetal brain polyA+ mRNA (#8535) Homo sapiens cDNA clone GEN-084C02
8969	21935	35361	3.89	0.0E+00	BE378495.1	EST_HUMAN	601238488F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3608709 5'
8975	21941	35365	3.98	0.0E+00	AA410545.1	EST_HUMAN	2632e04.r1 Scans ovary tumor NbHOT Homo sapiens cDNA clone IMAGE:724062 5'
8977	21943		3.27	0.0E+00	BF313946.1	EST_HUMAN	601900571F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4128744 5'
8984	21950	35374	1.37	0.0E+00	11424387	NT	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 3 (LILRB3), mRNA
8989	21955	35378	1.38	0.0E+00	AW139673.1	EST_HUMAN	UI-H-BH-adr-a-12-0-UI.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2717887 3'
8989	21955	35380	1.38	0.0E+00	AW139673.1	EST_HUMAN	UI-H-BH-adr-a-12-0-UI.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2717887 3'
8994	21960		0.61	0.0E+00	A1640190.1	EST_HUMAN	ws30b10.x1 NCI_CGAP_K1B11 Homo sapiens cDNA clone IMAGE:2289579 3' similar to TR:O15044
9013	21978	35398	3.23	0.0E+00	BF377697.1	EST_HUMAN	O15044 KIAA0335. ;
9022	21988	35410	0.45	0.0E+00	AL163301.2	NT	CMT-TN0741-250900-439-508 TN0141 Homo sapiens cDNA
9028	21994	35414	2.33	0.0E+00	BE260272.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C101
9033	21999	35418	2.98	0.0E+00	BF700165.1	EST_HUMAN	601150051F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3502836 5'
9033	21999	35419	2.98	0.0E+00	BF700165.1	EST_HUMAN	602127664F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4284542 5'
9033	21999	35419	2.98	0.0E+00	BF700165.1	EST_HUMAN	602127664F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4284542 5'

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9033	21999	35420	2.98	0.0E+00	BF700165.1	EST_HUMAN	602127864F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4284542 5'
9047	22013	35436	0.63	0.0E+00	AI458722.1	EST_HUMAN	k13h11.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2150949 3'
9076	22042	35485	0.7	0.0E+00	AL449770.1	EST_HUMAN	AL449770 Homo sapiens fetal brain (Stavrides GS) Homo sapiens cDNA
9084	22050	35472	12.96	0.0E+00	AA962527.1	EST_HUMAN	or08g02.s1 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1602194 3' similar to gb:M36072 60S
9090	22056	35490	4.79	0.0E+00	10947037	NT	RIBOSOMAL PROTEIN L7A (HUMAN);
9090	22056	35490	4.79	0.0E+00	10947037	NT	Homo sapiens ankyrin 1, erythrocytic (ANK1), transcript variant 1, mRNA
9090	22056	35481	4.79	0.0E+00	10947037	NT	Homo sapiens ankyrin 1, erythrocytic (ANK1), transcript variant 1, mRNA
9114	22080	35508	1.23	0.0E+00	Y11107.3	NT	Homo sapiens ITGB4 gene for integrin beta 4 subunit, exons 3-41
9116	22082	35510	2.41	0.0E+00	BE278917.1	EST_HUMAN	601156330F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3139734 5'
9126	22092		3.32	0.0E+00	AV718377	EST_HUMAN	AV718377 FHTB Homo sapiens cDNA clone FHTBAAF11 5'
9132	22098	35525	3.38	0.0E+00	AW337277.1	EST_HUMAN	xw73c07.x1 NCI_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2833644 3' similar to gb:X53587
9138	22104	35530	1.56	0.0E+00	AU124051	EST_HUMAN	INTEGRIN BETA-4 SUBUNIT PRECURSOR (HUMAN);
9214	22180	35611	0.86	0.0E+00	AU140704.1	EST_HUMAN	AU124051 NT2RM2 Homo sapiens cDNA clone NT2RM2C01575 5'
9224	22190	35620	0.55	0.0E+00	AB007923.1	NT	AU140704 PLACE4 Homo sapiens cDNA clone PLACE4000889 5'
9229	22195	35624	0.61	0.0E+00	R17132.1	EST_HUMAN	Homo sapiens mRNA for KIAA0454 protein, partial cds
9229	22195	35625	0.61	0.0E+00	R17132.1	EST_HUMAN	y09e09.r1 Soares Infant brain 1N1B Homo sapiens cDNA clone IMAGE:31674 5'
9233	22199	35627	5.11	0.0E+00	AW592233.1	EST_HUMAN	y09e09.r1 Soares Infant brain 1N1B Homo sapiens cDNA clone IMAGE:31674 5'
9233	22199	35628	5.11	0.0E+00	AW592233.1	EST_HUMAN	h148a09.x1 Soares NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2935096 3'
9269	22235	35664	0.48	0.0E+00	AU128804.1	EST_HUMAN	h148a09.x1 Soares NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2935096 3'
9281	22247	35676	0.89	0.0E+00	AV714764.1	EST_HUMAN	AU128804 NT2RP2 Homo sapiens cDNA clone NT2RP2004245 5'
9288	22262	35690	3.01	0.0E+00	AL040428.1	EST_HUMAN	AV714764 DCB Homo sapiens cDNA clone DCBAUA06 5'
9296	22262	35691	3.01	0.0E+00	AL040428.1	EST_HUMAN	DKFZp434C1814_s1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434C1814 3'
9302	22267	35697	1.27	0.0E+00	AF133001.1	NT	DKFZp434C1814_s1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434C1814 3'
9304	22269	35700	1.89	0.0E+00	AB040945.1	NT	DKFZp434C1814_s1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434C1814 3'
9310	22275	35707	2.24	0.0E+00	BF675505.1	EST_HUMAN	Homo sapiens killer inhibitory receptor 2-2-1 (KIR221) and killer inhibitory receptor 2-2-2 (KIR222) genes, partial cds
9312	22277		0.92	0.0E+00	BF058289.1	EST_HUMAN	Homo sapiens tumor protein p73 (TP73), mRNA
9342	22307	35733	4.84	0.0E+00	11422857	NT	S GAG ;
9352	22317	35743	1.44	0.0E+00	K01241.1	NT	Homo sapiens tumor protein p73 (TP73), mRNA
9381	22326	35754	4.23	0.0E+00	AB020630.1	NT	Human Ig rearranged H-chain epsilon-3 pseudogene, constant region
9381	22326	35755	4.23	0.0E+00	AB020630.1	NT	Homo sapiens mRNA for KIAA0823 protein, partial cds
9386	22331	35761	1.71	0.0E+00	AV690739.1	EST_HUMAN	Homo sapiens mRNA for KIAA0823 protein, partial cds
							Homo sapiens mRNA for KIAA0823 protein, partial cds
							AV690739 GLC Homo sapiens cDNA clone GLCGKG12 3'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9372	22337	35767	3.07	0.0E+00	7706638	NT	Homo sapiens polycystin-L (PKDL), mRNA
9377	22342	35772	2.22	0.0E+00	BE793326.1	EST_HUMAN	601588304F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3942553 5'
9378	22343	35773	0.46	0.0E+00	AB033077.1	NT	Homo sapiens mRNA for KIAA1251 protein, partial cds
9378	22343	35774	0.46	0.0E+00	AB033077.1	NT	Homo sapiens mRNA for KIAA1251 protein, partial cds
9391	22358		0.98	0.0E+00	H73937.1	EST_HUMAN	yj03h08.r1 Scores fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:232767 5'
9401	22366	35798	4.19	0.0E+00	BE315402.1	EST_HUMAN	60114119F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3140740 5'
9401	22366	35799	4.19	0.0E+00	BE315402.1	EST_HUMAN	60114119F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3140740 5'
9411	22376	35814	0.59	0.0E+00	BE612721.1	EST_HUMAN	601452582F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3856100 5'
9411	22376	35815	0.59	0.0E+00	BE612721.1	EST_HUMAN	601452582F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3856100 5'
9414	22379		0.52	0.0E+00	M89996.1	NT	Human polymorphic loci in Xq28
9416	22381	35819	1.74	0.0E+00	X14766.1	NT	Human mRNA for GABA-A receptor, alpha 1 subunit
9433	22397	35835	0.5	0.0E+00	AU127096.1	EST_HUMAN	AU127096 NT2RP2 Homo sapiens cDNA clone NT2RP2000579 5'
9437	22401	35839	1.29	0.0E+00	A1061935.1	EST_HUMAN	an29e04.x1 Gessler Wilms tumor Homo sapiens cDNA clone IMAGE:1700094 3'
9442	22406	35843	1.96	0.0E+00	A1954607.1	EST_HUMAN	wq34a12.x1 NCL CGAP_G08 Homo sapiens cDNA clone IMAGE:2473150 3' similar to SW:MGB3_HUMAN O16480 MELANOMA-ASSOCIATED ANTIGEN B3
9447	22411	35848	4.1	0.0E+00	9256595	NT	Homo sapiens protocadherin alpha 8 (PCDH8), mRNA
9458	22422	35860	1.18	0.0E+00	AW958311.1	EST_HUMAN	EST370381 IMAGE resequences, IMAGE Homo sapiens cDNA
9468	22432	35870	4.72	0.0E+00	9635487	NT	Human endogenous retrovirus, complete genome
9484	22448	35888	1.44	0.0E+00	AU142662.1	EST_HUMAN	AU142662 Y79AA1 Homo sapiens cDNA clone Y79AA1000878 5'
9499	22463	35904	1.46	0.0E+00	11436995	NT	Homo sapiens MAP-kinase activating death domain (MADD), mRNA
9500	22464		0.8	0.0E+00	BE410768.1	EST_HUMAN	601301676F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3636163 5'
9513	22476	35921	1.29	0.0E+00	BF002024.1	EST_HUMAN	7g97h12.x1 NCL CGAP_C016 Homo sapiens cDNA clone IMAGE:3314471 3' similar to TR:O8UH82
9527	22490	35937	1.25	0.0E+00	AB011150.1	NT	Q8UH62 HYPOPHYSICAL 42.5 KD PROTEIN ;
9528	22491	35938	4.85	0.0E+00	BE794823.1	EST_HUMAN	Homo sapiens mRNA for KIAA0578 protein, partial cds
9534	22497	35945	1.04	0.0E+00	AU136229.1	EST_HUMAN	6015889294F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943463 5'
9539	22502	35950	1.38	0.0E+00	BE883843.1	EST_HUMAN	AU136229 PLACE1 Homo sapiens cDNA clone PLACE1003804 5'
9539	22502	35951	1.38	0.0E+00	BE883843.1	EST_HUMAN	601510247F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3911986 5'
9557	22519	35967	0.77	0.0E+00	AB011166.1	NT	601510247F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3911986 5'
9561	22523	35971	3.53	0.0E+00	AA344601.1	EST_HUMAN	Homo sapiens mRNA for KIAA0594 protein, partial cds
9561	22523	35972	3.53	0.0E+00	AA344601.1	EST_HUMAN	EST50505 Gall bladder 1 Homo sapiens cDNA 5' end
9619	22563	36011	1.02	0.0E+00	AW673469.1	EST_HUMAN	EST50505 Gall bladder 1 Homo sapiens cDNA 5' end ba64d08.y3 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2900367 5' similar to TR:O60275 O60275 KIAA0522 PROTEIN ;

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9619	22563	36012	1.02	0.0E+00	AW 673469.1	EST_HUMAN	ba54408.y3 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:280387 5' similar to TR:O60275 O60275 KIAA0522 PROTEIN;
9653	22596	36044	4.71	0.0E+00	BE207063.1	EST_HUMAN	ba0905.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823873 5' similar to gb:L35049 Mus musculus Bcl-xL mRNA, complete cds (MOUSE);
9653	22596	36045	4.71	0.0E+00	BE207063.1	EST_HUMAN	ba0905.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823873 5' similar to gb:L35049 Mus musculus Bcl-xL mRNA, complete cds (MOUSE);
9684	22821	36275	1.77	0.0E+00	BF348013.1	EST_HUMAN	602023150F1 NCI_CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4158300 5'
9700	22653	36107	2.9	0.0E+00	BE712515.1	EST_HUMAN	QV2-HT0688-250700-282-b08 HT0688 Homo sapiens cDNA
9732	22760	36213	0.86	0.0E+00	BF034377.1	EST_HUMAN	601455116F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3859035 5'
9732	22760	36214	0.86	0.0E+00	BF034377.1	EST_HUMAN	601455116F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3859035 5'
9738	22766	36221	0.53	0.0E+00	AI906351.1	EST_HUMAN	RC-BT108-040399-032 BT108 Homo sapiens cDNA
9741	22769	36223	3.69	0.0E+00	5803069.NT	NT	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 5 (LILRB5), mRNA
9741	22769	36224	3.69	0.0E+00	5803069.NT	NT	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 5 (LILRB6), mRNA
9751	22692	36149	2.54	0.0E+00	AL042278.1	EST_HUMAN	DKFZp434L0120_1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434L0120 5'
9786	22727	36183	2.35	0.0E+00	AI088043.1	EST_HUMAN	ow60101.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:1651249 3' similar to TR:Q14677 Q14677 KIAA0171 PROTEIN;
9793	21116	34515	0.85	0.0E+00	BF309962.1	EST_HUMAN	601892245F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4138066 5'
9795	21118	34518	2.64	0.0E+00	11560151.NT	NT	Homo sapiens hypothetical C2H2 zinc finger protein FLJ22504 (FLJ22504), mRNA
9795	21118	34519	2.64	0.0E+00	11560151.NT	NT	Homo sapiens hypothetical C2H2 zinc finger protein FLJ22504 (FLJ22504), mRNA
9797	21120	34522	20.82	0.0E+00	AI200909.1	EST_HUMAN	qm09a06.x1 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1881298 3' similar to SW:RL2B_HUMAN P28316 60S RIBOSOMAL PROTEIN L23A;
9797	21120	34523	20.82	0.0E+00	AI200909.1	EST_HUMAN	qm09a06.x1 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1881298 3' similar to SW:RL2B_HUMAN P28316 60S RIBOSOMAL PROTEIN L23A;
9798	21121	34524	3.57	0.0E+00	AW953836.1	EST_HUMAN	EST366028 IMAGE resequences. MAGC Homo sapiens cDNA
9825	22674	36128	3.43	0.0E+00	AF153486.1	NT	Homo sapiens polycystic kidney disease 2-like protein (PKD2L) gene, exon 8
9828	22677	36133	0.86	0.0E+00	BE885128.1	EST_HUMAN	601510882F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3912165 5'
9828	22677	36134	0.86	0.0E+00	BE885128.1	EST_HUMAN	601510882F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3912165 5'
9837	22773	36133	22.2	0.0E+00	BE258828.1	EST_HUMAN	601109942F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3350722 5'
9840	22776	36231	1.35	0.0E+00	BE781382.1	EST_HUMAN	601468828F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3870007 5'
9840	22776	36232	1.35	0.0E+00	BE781382.1	EST_HUMAN	601468828F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3870007 5'
9843	22779	36234	30.94	0.0E+00	AW163779.1	EST_HUMAN	au86c04.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2783142 5' similar to gb:M36072 60S RIBOSOMAL PROTEIN L7A (HUMAN);

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9854	22780	36242	0.44	0.0E+00	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
9867	22803	36257	3.12	0.0E+00	BE283191.1	EST_HUMAN	601145054F2 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3180477 5'
9885	22838	36293	4.11	0.0E+00	C06158.1	EST_HUMAN	C06158 Human pancreatic islet Homo sapiens cDNA clone hbc5605
9885	22838	36294	4.11	0.0E+00	C06158.1	EST_HUMAN	C06158 Human pancreatic islet Homo sapiens cDNA clone hbc5605
9887	22840	36297	2.92	0.0E+00	BE746215.1	EST_HUMAN	601576683F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3927548 5'
9897	22850	36307	1.81	0.0E+00	11437282	NT	Homo sapiens solute carrier family 21 (organic anion transporter), member 9 (SLC21A9), mRNA
9897	22850	36308	1.81	0.0E+00	11437282	NT	Homo sapiens solute carrier family 21 (organic anion transporter), member 9 (SLC21A9), mRNA
9897	22850	36309	1.81	0.0E+00	11437282	NT	Homo sapiens solute carrier family 21 (organic anion transporter), member 9 (SLC21A9), mRNA
9917	22738	36191	1.49	0.0E+00	BE900549.1	EST_HUMAN	601673425F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3956238 5'
9935	22862	36323	0.61	0.0E+00	AV701826.1	EST_HUMAN	AV701829 ADB Homo sapiens cDNA clone ADBBYH01 5'
9947	22874	36335	2.59	0.0E+00	AF019084.1	NT	Homo sapiens keratin 2e (KRT2E) gene, complete cds
9947	22874	36336	2.59	0.0E+00	AF019084.1	NT	Homo sapiens keratin 2e (KRT2E) gene, complete cds
9980	22907	36372	1.86	0.0E+00	BE082877.1	EST_HUMAN	RC2-BT0642-130300-017-g01 BT0642 Homo sapiens cDNA
9999	22826	36392	2.65	0.0E+00	AW500293.1	EST_HUMAN	UI-HF-BNO-akg-b-12-0-UI.1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3076943 5'
9999	22826	36393	2.65	0.0E+00	AW500293.1	EST_HUMAN	UI-HF-BNO-akg-b-12-0-UI.1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3076943 5'
10008	22935	36399	1.45	0.0E+00	AF029308.1	NT	Homo sapiens chromosome 9 duplication of the T cell receptor beta locus and tyrosinogen gene families
10008	22935	36400	1.45	0.0E+00	AF029308.1	NT	Homo sapiens chromosome 9 duplication of the T cell receptor beta locus and tyrosinogen gene families
10010	22937	36401	0.76	0.0E+00	BE783272.1	EST_HUMAN	601470824F1 NIH_MGC_87 Homo sapiens cDNA clone IMAGE:3874037 5'
10010	22937	36402	0.76	0.0E+00	BE783272.1	EST_HUMAN	601470824F1 NIH_MGC_87 Homo sapiens cDNA clone IMAGE:3874037 5'
10019	22946	36413	0.52	0.0E+00	W56629.1	EST_HUMAN	z018e1.1 Soares_fetal_heart_NbHH19W Homo sapiens cDNA clone IMAGE:340844 5'
10019	22946	36414	0.52	0.0E+00	W56629.1	EST_HUMAN	z018e1.1 Soares_fetal_heart_NbHH19W Homo sapiens cDNA clone IMAGE:340844 5'
10032	22859	36427	1.05	0.0E+00	AB035356.1	NT	Homo sapiens mRNA for neurixin 1-alpha protein, complete cds
10036	22863		0.56	0.0E+00	AH24780.1	EST_HUMAN	am56a11.x1 Johnston frontal cortex Homo sapiens cDNA clone IMAGE:1539548 3'
10038	22865	36432	2.73	0.0E+00	AW500526.1	EST_HUMAN	UI-HF-BNO-akg-c-07-0-UI.1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3077364 5'
10082	23009	36481	1.51	0.0E+00	AF006998.1	NT	Multiple sclerosis associated retrovirus polyprotein (p0) mRNA, partial cds
10109	23035	36512	2.37	0.0E+00	S78466.1	NT	AlGF=androgen-induced growth factor AlGF [human, placenta, Genomic/mRNA, 498 nt, segment 5 of 5]
10109	23035	36513	2.37	0.0E+00	S78466.1	NT	AlGF=androgen-induced growth factor AlGF [human, placenta, Genomic/mRNA, 498 nt, segment 5 of 5]
10112	23038	36518	3.13	0.0E+00	BE563320.1	EST_HUMAN	601334603F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3688680 5'
10132	23058	36535	1.42	0.0E+00	AW363135.1	EST_HUMAN	CM2-CT0311-301189-043-h11 CT0311 Homo sapiens cDNA
10152	23077	36553	0.61	0.0E+00	11436432	NT	Homo sapiens mullerlin (MMLN), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10153	23078	36554	1.71	0.0E+00	11424387	NT	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 3 (LILRB3), mRNA
10162	23087	36564	0.82	0.0E+00	BE206710.1	EST_HUMAN	bb28601.x1 NIH_MGC_5 Homo sapiens cDNA clone IMAGE:2964000 3'
10178	23103	36583	2.6	0.0E+00	AU132349.1	EST_HUMAN	AU132349 NT2RP3 Homo sapiens cDNA clone NT2RP3004260 5'
10178	23103	36584	2.6	0.0E+00	AU132349.1	EST_HUMAN	AU132349 NT2RP3 Homo sapiens cDNA clone NT2RP3004260 5'
10187	23112	36596	1.82	0.0E+00	AW500336.1	EST_HUMAN	UI-HF-BP0p-ar-f-05-Q-UJr1 NIH_MGC_51 Homo sapiens cDNA clone IMAGE:3072897 5'
10193	23118	36602	16.11	0.0E+00	BE740490.1	EST_HUMAN	601595558F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3949383 5'
10193	23118	36603	16.11	0.0E+00	BE740490.1	EST_HUMAN	601595558F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3949383 5'
10194	23119	36604	0.45	0.0E+00	AB033057.1	NT	Homo sapiens mRNA for KIAA1231 protein, partial cds
10194	23119	36605	0.45	0.0E+00	AB033057.1	NT	Homo sapiens mRNA for KIAA1231 protein, partial cds
10206	23131	36618	1.76	0.0E+00	7682067	NT	Homo sapiens KIAA0345 gene product (KIAA0345), mRNA
10224	23149	36638	3.6	0.0E+00	AL042278.1	EST_HUMAN	DKFZp434L0120_1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434L0120 5'
10229	23154	36644	0.71	0.0E+00	AL041084.2	EST_HUMAN	DKFZp434B2416_1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434B2416 5'
10239	23164	36651	2.57	0.0E+00	AU132349.1	EST_HUMAN	AU132349 NT2RP3 Homo sapiens cDNA clone NT2RP3004260 5'
10240	23165	36652	2.44	0.0E+00	AF152308.1	NT	Homo sapiens probocadherin alpha 12 (PCDH-alpha12) mRNA, complete cds
10268	23193	36680	6.52	0.0E+00	AF009220.1	NT	Homo sapiens leukocyte immunoglobulin-like receptor-1 mRNA, complete cds
10268	23193	36681	5.52	0.0E+00	AF009220.1	NT	Homo sapiens leukocyte immunoglobulin-like receptor-1 mRNA, complete cds
10284	23209	36694	2.5	0.0E+00	BF082898.1	EST_HUMAN	MR4-TN0114-110900-101-e04 TN0114 Homo sapiens cDNA
10314	23238	36720	2.73	0.0E+00	BE280793.1	EST_HUMAN	601155227F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3138798 5'
10323	23247	36726	1.2	0.0E+00	BE388700.1	EST_HUMAN	601286351F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3613045 5'
10323	23247	36727	1.2	0.0E+00	BE388700.1	EST_HUMAN	601286351F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3613045 5'
10332	23256	36733	3.64	0.0E+00	AW236269.1	EST_HUMAN	xt72b01.x1 NCI_CGAP_CML1 Homo sapiens cDNA clone IMAGE:2699977 3' similar to gb:X02152_cds1 L-
10333	23257	36734	0.75	0.0E+00	AA341305.1	EST_HUMAN	LACTATE DEHYDROGENASE M CHAIN (HUMAN);
10342	23266	36745	0.63	0.0E+00	11427235	NT	EST46740 Fetal Kidney II Homo sapiens cDNA 5' end
10363	23286	36763	0.75	0.0E+00	AW964113.1	EST_HUMAN	Homo sapiens Chediak-Higashi syndrome 1 (CHS1), mRNA
10376	23299	36774	7.08	0.0E+00	AU143673.1	EST_HUMAN	EST376186 MAGE resequences, MAGH Homo sapiens cDNA
10376	23299	36775	7.08	0.0E+00	AU143673.1	EST_HUMAN	AU143673 Y79AA1 Homo sapiens cDNA clone Y79AA1002307 5'
10379	23302	36778	13.11	0.0E+00	AF072408.1	NT	AU143673 Y79AA1 Homo sapiens cDNA clone Y79AA1002307 5'
10382	23304	36780	2.8	0.0E+00	11421001	NT	Homo sapiens killer cell inhibitory receptor KIRCI gene, exons 2, 3, and 4
10382	23304	36781	2.8	0.0E+00	11421001	NT	Homo sapiens HEF like Protein (HEFL), mRNA
10416	23338	36824	3.43	0.0E+00	AU136637.1	EST_HUMAN	Homo sapiens HEF like Protein (HEFL), mRNA
10416	23338	36825	3.43	0.0E+00	AU136637.1	EST_HUMAN	AU136637 PLACE1 Homo sapiens cDNA clone PLACE1004737 5'
10432	23364	36839	2.24	0.0E+00	AJ295844.1	NT	AU136637 PLACE1 Homo sapiens cDNA clone PLACE1004737 5'
							Homo sapiens partial RANBP7 gene for RanBP7/importin7 and partial ZNF143 gene

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10432	23354	36840	2.24	0.0E+00	AJ295844.1	NT	Homo sapiens partial RANBP7 gene for RanBP7/Importin7 and partial ZNF143 gene
10437	23359	36847	0.75	0.0E+00	AV695712.1	EST_HUMAN	AV695712 GKX Homo sapiens cDNA clone GKDXA07 5'
10437	23359	36848	0.75	0.0E+00	AV695712.1	EST_HUMAN	AV695712 GKX Homo sapiens cDNA clone GKDXA07 5'
10443	23365	36855	0.78	0.0E+00	AF072408.1	NT	Homo sapiens killer cell inhibitory receptor KIRCI gene, exons 2, 3, and 4
10445	23367	36858	2.64	0.0E+00	AA196387.1	EST_HUMAN	2p97h11.1 Stragene muscle 937209 Homo sapiens cDNA clone IMAGE:628187 5'
10470	23392	36887	1.78	0.0E+00	AA131248.1	EST_HUMAN	231101.1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:503545 5'
10470	23392	36888	1.78	0.0E+00	AA131248.1	EST_HUMAN	231101.1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:503545 5'
10517	23439	36937	1.79	0.0E+00	AF179308.1	NT	Homo sapiens KIF4 (KIF4) mRNA, complete cds
10561	23483	36978	0.88	0.0E+00	BE880858.1	EST_HUMAN	601491565F1 NIH_MGC_89 Homo sapiens cDNA clone IMAGE:3893657 5'
10573	23495	36987	11.49	0.0E+00	BE730772.1	EST_HUMAN	601570712F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3845403 5'
10573	23495	36988	11.49	0.0E+00	BE730772.1	EST_HUMAN	601570712F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3845403 5'
10578	23500	36992	0.82	0.0E+00	AU127403.1	EST_HUMAN	AU127403 NT2RP2 Homo sapiens cDNA clone NT2RP2001212 5'
10588	23510	37003	0.86	0.0E+00	BE958511.1	EST_HUMAN	601645134F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:3930177 5'
10588	23510	37004	0.86	0.0E+00	BE958511.1	EST_HUMAN	601645134F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:3930177 5'
10605	23527	37023	0.98	0.0E+00	BE897487.1	EST_HUMAN	601432317F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3917453 5'
10616	23558	37037	0.68	0.0E+00	AA311624.1	EST_HUMAN	EST182353 Jurkat T-cells VI Homo sapiens cDNA 5' end
10617	23539	37038	0.56	0.0E+00	4758827	NT	Homo sapiens neurexin III (NRXN3) mRNA
10629	23551	37051	0.78	0.0E+00	BE891113.1	EST_HUMAN	601432228F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3917598 5'
10632	23554	37054	1.19	0.0E+00	11560151	NT	Homo sapiens hypothetical C2H2 zinc finger protein FLJ22504 (FLJ22504), mRNA
10642	23564	37060	1.39	0.0E+00	AB029290.1	NT	Homo sapiens mRNA for actin binding protein ABP620, complete cds
10643	23565	37061	0.8	0.0E+00	BE304522.1	EST_HUMAN	601105459F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2987818 5'
10643	23565	37062	0.8	0.0E+00	BE304522.1	EST_HUMAN	601105459F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2987818 5'
10650	23572	37067	4.13	0.0E+00	AB006590.1	NT	Homo sapiens mRNA for estrogen receptor beta, complete cds
10650	23572	37068	4.13	0.0E+00	AB006590.1	NT	Homo sapiens mRNA for estrogen receptor beta, complete cds
10658	23580	37077	1.27	0.0E+00	AA704457.1	EST_HUMAN	219006.61 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:450707 3' similar to gb:M14123_cds1 RETROVIRUS-RELATED GAG POLYPROTEIN (HUMAN);
10660	23582	37078	1.19	0.0E+00	M22921.1	NT	Human beta 1,4-galactosyl-transferase mRNA, complete cds
10662	23584	37081	4.52	0.0E+00	BF340331.1	EST_HUMAN	602037045F1 NCI_CGAP_Bm64 Homo sapiens cDNA clone IMAGE:4184839 5'
10662	23584	37082	4.52	0.0E+00	BF340331.1	EST_HUMAN	602037045F1 NCI_CGAP_Bm64 Homo sapiens cDNA clone IMAGE:4184839 5'
10687	23609	37103	5.24	0.0E+00	BE897149.1	EST_HUMAN	601439713F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3924578 5'
10687	23609	37104	5.24	0.0E+00	BE897149.1	EST_HUMAN	601439713F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3924578 5'
10719	23641	37134	0.48	0.0E+00	AV716271.1	EST_HUMAN	AV716271 DCS Homo sapiens cDNA clone DCBDDC09 5'
10719	23641	37135	0.48	0.0E+00	AV716271.1	EST_HUMAN	AV716271 DCS Homo sapiens cDNA clone DCBDDC09 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptbr
10750	23672	37187	1.13	0.0E+00	AI631818.1	EST_HUMAN	wa36e03.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2300188 3' similar to TR:Q61204 Q61204 NOTCH2-LIKE;
10750	23672	37188	1.13	0.0E+00	AI631818.1	EST_HUMAN	wa36e03.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2300188 3' similar to TR:Q61204 Q61204 NOTCH2-LIKE;
10764	23685	37181	2	0.0E+00	TC03078.1	EST_HUMAN	Q61204 NOTCH2-LIKE;
10789	23710	37212	0.87	0.0E+00	AU122429.1	EST_HUMAN	FB23A4 Fetal brain, Strategene Homo sapiens cDNA clone FB23A4 3'end
10795	23716	37218	0.43	0.0E+00	6005921	NT	AU122429 MAMMA1 Homo sapiens cDNA clone MAMMA1002388 5'
10817	23738	37241	2.63	0.0E+00	BF436218.1	EST_HUMAN	Homo sapiens triple functional domain (PTPRF Interacting) (TRIO), mRNA
10818	23739		1.3	0.0E+00	AV654755.1	EST_HUMAN	nab45e12.x1 Soares NSF_F8_9W_OT_PA_P_ST Homo sapiens cDNA clone IMAGE:3265271 3'
10837	23757	37257	5.03	0.0E+00	AW517980.1	EST_HUMAN	AV654765 GLC Homo sapiens cDNA clone GLCD2007 3'
10841	23761	37261	18.38	0.0E+00	BE549213.1	EST_HUMAN	xu74b01.x1 NCI_CGAP_Kid8 Homo sapiens cDNA clone IMAGE:2807401 3' similar to gb:M69088 MOESIN (HUMAN);
10858	23778	37278	0.84	0.0E+00	11436005	NT	601078764F1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3464703 5'
10883	23803	37307	0.44	0.0E+00	X89893.1	NT	Homo sapiens hypothetical protein DKFZp761P1010 (DKFZp761P1010), mRNA
10884	23804	37308	4.15	0.0E+00	BE781742.1	EST_HUMAN	H.sapiens mRNA for NK receptor (183 Act1)
10903	23823	37334	3.07	0.0E+00	BE082720.1	EST_HUMAN	601467419F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3870700 5'
10903	23823	37335	3.07	0.0E+00	BE082720.1	EST_HUMAN	RC2-BT0842-150200-012-403 BT0842 Homo sapiens cDNA
10910	23830	37343	0.56	0.0E+00	Y08032.1	NT	RC2-BT0842-150200-012-403 BT0842 Homo sapiens cDNA
10915	23835	37351	0.7	0.0E+00	AI656890.1	EST_HUMAN	Human endogenous retrovirus-K, LTR U5 and gag gene
10922	23842	37358	1.6	0.0E+00	BE743215.1	EST_HUMAN	tf54e07.x1 NCI_CGAP_G08 Homo sapiens cDNA clone IMAGE:2244812 3'
10922	23842	37359	1.8	0.0E+00	BE743215.1	EST_HUMAN	601573895F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3835198 5'
10925	23845	37360	0.97	0.0E+00	BE617655.1	EST_HUMAN	601573895F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3835198 5'
10925	23845	37361	0.87	0.0E+00	BE617655.1	EST_HUMAN	601441723T1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3845958 3'
10946	23866	37380	0.55	0.0E+00	H39805.1	EST_HUMAN	601441723T1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3845958 3'
10960	23880	37393	0.48	0.0E+00	AW748117.1	EST_HUMAN	yp01a10.r1 Soares breast 3NbhBst Homo sapiens cDNA clone IMAGE:186138 5'
10972	23892	37408	1.18	0.0E+00	D87875.1	NT	QV0-BT0107-230799-007-c06 BT0107 Homo sapiens cDNA
10973	23893	37407	0.48	0.0E+00	AF081364.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
10994	23914	37430	0.48	0.0E+00	AW342141.1	EST_HUMAN	Synthetic construct CD30 ligand-exotoxin A fusion protein (CD30L-ETA fusion) mRNA, partial cds
10994	23914	37431	0.46	0.0E+00	AW342141.1	EST_HUMAN	EST 00007 Human differential display products Homo sapiens cDNA clone UNCDD7
10999	23965	37489	1.72	0.0E+00	AV711075.1	EST_HUMAN	EST 00007 Human differential display products Homo sapiens cDNA clone UNCDD7
10999	23965	37490	1.72	0.0E+00	AV711075.1	EST_HUMAN	AV711075 Cu Homo sapiens cDNA clone CUAAG05 5'
11001	23967		3.29	0.0E+00	AW813783.1	EST_HUMAN	AV711075 Cu Homo sapiens cDNA clone CUAAG05 5'
11007	23972	37496	6.07	0.0E+00	AW963863.1	EST_HUMAN	RC3-ST0197-120200-015-a03 ST0197 Homo sapiens cDNA
11019	23984	37510	1.81	0.0E+00	11431124	NT	EST375638 IMAGE resequences, MAGH Homo sapiens cDNA Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11019	23984	37511	1.81	0.0E+00	11431124	NT	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA
11023	23988	37515	1.76	0.0E+00	AW057621.1	EST_HUMAN	wy6109.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:2553065 3' similar to TR:Q60566 Q60566 VDX;
11029	23993	37520	1.96	0.0E+00	BE243270.1	EST_HUMAN	TCAAP3D0917 Pediatric acute myelogenous leukemia cell (FAB M1) Baylor-HGSC project=TCAA Homo sapiens cDNA clone TCAAP0917
11030	23994	37521	2.54	0.0E+00	AI652239.1	EST_HUMAN	wb28a12.x1 NCL CGAP_GC6 Homo sapiens cDNA clone IMAGE:2306974 3' similar to contains element MSR1 MSR1 repetitive element;
11030	23994	37522	2.54	0.0E+00	AI652239.1	EST_HUMAN	wb28a12.x1 NCL CGAP_GC6 Homo sapiens cDNA clone IMAGE:2306974 3' similar to contains element MSR1 MSR1 repetitive element;
11034	23998	37525	2.13	0.0E+00	BF306642.1	EST_HUMAN	601888704F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4122649 5'
11041	24005	37531	3.83	0.0E+00	11545911	NT	Homo sapiens NOD2 protein (NOD2), mRNA
11041	24005	37532	3.83	0.0E+00	11545911	NT	Homo sapiens NOD2 protein (NOD2), mRNA
11055	24018	37541	5.31	0.0E+00	AW404795.1	EST_HUMAN	UI-HF-BL0-acm-D-04-0-UJ:1 NIH_MGC_37 Homo sapiens cDNA clone IMAGE:3059383 5'
11058	24021	37544	2.69	0.0E+00	11424829	NT	Homo sapiens hypothetical protein FLJ20079 (FLJ20079), mRNA
11059	24022	37545	7.34	0.0E+00	4504536	NT	Homo sapiens 5-hydroxytryptamine (serotonin) receptor 1E (HTR1E) mRNA
11059	24022	37546	7.34	0.0E+00	4504536	NT	Homo sapiens 5-hydroxytryptamine (serotonin) receptor 1E (HTR1E) mRNA
11060	24023	37547	2.71	0.0E+00	AI891827.1	EST_HUMAN	wi32b06.x1 Soares_Dieckgraefe_colon_NHCD Homo sapiens cDNA clone IMAGE:2521715 3'
11063	24026	37551	1.64	0.0E+00	BE882109.1	EST_HUMAN	601503204F2 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3906865 5'
11068	24029	37553	21.37	0.0E+00	BE891630.1	EST_HUMAN	601434522F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3919836 5'
11068	24031	37554	4.59	0.0E+00	8923939	NT	Homo sapiens myosin, heavy polypeptide 2, skeletal muscle, adult (MYH2), mRNA
11068	24031	37555	4.59	0.0E+00	8923939	NT	Homo sapiens myosin, heavy polypeptide 2, skeletal muscle, adult (MYH2), mRNA
11083	18962	32151	5.57	0.0E+00	AA195905.1	EST_HUMAN	zp95b11.1 Stragene muscle 937209 Homo sapiens cDNA clone IMAGE:627933 5' similar to gb:X03740 MYOSIN HEAVY CHAIN, SKELETAL MUSCLE (HUMAN);
11103	24063	37586	100.2	0.0E+00	AA809080.1	EST_HUMAN	nm17c08.s1 NCL CGAP_GC80 Homo sapiens cDNA clone IMAGE:1240718 3' similar to gb:X57809 IG LAMBDA CHAIN C REGIONS (HUMAN);
11104	24064	37587	4.22	0.0E+00	BE783498.1	EST_HUMAN	601588282F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943015 5'
11113	24073	37595	15.77	0.0E+00	AV727362.1	EST_HUMAN	AV727362 HTC Homo sapiens cDNA clone HTCAQH06 5'
11113	24073	37596	15.77	0.0E+00	AV727362.1	EST_HUMAN	AV727362 HTC Homo sapiens cDNA clone HTCAQH06 5'
11126	24086	37613	14.2	0.0E+00	AA464313.1	EST_HUMAN	zx78c12.1 Soares ovary tumor NbHOT Homo sapiens cDNA clone IMAGE:609878 5' similar to gb:X72467 IG KAPPA CHAIN PRECURSOR V-JI REGION (HUMAN);
11129	24089	37618	24.26	0.0E+00	AW516055.1	EST_HUMAN	xy04g10.x1 NCL CGAP_Lym12 Homo sapiens cDNA clone IMAGE:2852226 3' similar to gb:M60854 40S RIBOSOMAL PROTEIN S16 (HUMAN);
11134	24094	37623	1.88	0.0E+00	AU135741.1	EST_HUMAN	AU135741 PLACE1 Homo sapiens cDNA clone PLACE1002794 5'

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11139	24099	37626	3.36	0.0E+00	AW593333.1	EST_HUMAN	hg13d02.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2945475 3' similar to contains element MSR1 repetitive element;
11139	24099	37627	3.36	0.0E+00	AW593333.1	EST_HUMAN	hg13d02.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2945475 3' similar to contains element MSR1 repetitive element;
11139	24099	37628	3.36	0.0E+00	AW593333.1	EST_HUMAN	hg13d02.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2945475 3' similar to contains element MSR1 repetitive element;
11141	24101	37629	1.68	0.0E+00	Z34897.1	NT	H sapiens mRNA for H1 histamine receptor
11142	24102	37630	2.54	0.0E+00	F13089.1	EST_HUMAN	HSC3C031 normalized infant brain cDNA Homo sapiens cDNA clone c-3lc03
11159	24117	37643	2.4	0.0E+00	M27751.1	NT	Homo sapiens immunoglobulin kappa-chain A14 V-region precursor (IGKV) gene, partial cds
11159	24117	37644	2.4	0.0E+00	M27751.1	NT	Homo sapiens immunoglobulin kappa-chain A14 V-region precursor (IGKV) gene, partial cds
11167	24125	37654	40.1	0.0E+00	AW338094.1	EST_HUMAN	xw66f01.x1 NCI_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2832985 3' similar to gb:X171115 IG MU CHAIN C REGION (HUMAN);
11168	24126	37655	3.54	0.0E+00	AW451230.1	EST_HUMAN	UHL-B13-ah-e-01-0-U1.s1 NCI_CGAP_Sub5 Homo sapiens cDNA clone IMAGE:2736649 3'
11168	24126	37656	3.54	0.0E+00	AW451230.1	EST_HUMAN	UHL-B13-ah-e-01-0-U1.s1 NCI_CGAP_Sub5 Homo sapiens cDNA clone IMAGE:2736649 3'
11170	13316		8.04	0.0E+00	4506632	NT	Homo sapiens ribosomal protein L31 (RPL31) mRNA
11184	24140	37674	2.07	0.0E+00	BE298449.1	EST_HUMAN	601119248F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3029219 5'
11196	24151	37682	2.13	0.0E+00	AB011117.1	NT	Homo sapiens mRNA for KIAA0545 protein, partial cds
11199	24154	37686	1.69	0.0E+00	Z20656.1	NT	Homo sapiens of cardiac alpha-myosin heavy chain gene
11206	24160	37690	1.68	0.0E+00	BE264995.1	EST_HUMAN	601193824F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3538012 5'
11214	24167	37696	1.62	0.0E+00	BE792155.1	EST_HUMAN	601882046F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3936639 5'
11215	24168		70.33	0.0E+00	BF684061.1	EST_HUMAN	602141405F1 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:4302432 5'
11217	24170	37698	7.66	0.0E+00	AU118386.1	EST_HUMAN	AU118386 HEMBA1 Homo sapiens cDNA clone HEMBA1003486 5'
11218	24171						xn72601.x1 NCI_CGAP_CML1 Homo sapiens cDNA clone IMAGE:2699977 3' similar to gb:X02162_cds1 L-LACTATE DEHYDROGENASE M CHAIN (HUMAN);
11223	24176	37702	4.92	0.0E+00	A1149809.1	EST_HUMAN	gf43cd03.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1752772 3'
11223	24176	37703	4.92	0.0E+00	A1149809.1	EST_HUMAN	gf43cd03.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1752772 3'
11224	24177	37704	2.09	0.0E+00	AW391937.1	EST_HUMAN	QV4-ST0234-121199-032-506 ST0234 Homo sapiens cDNA
11234	24187		1.54	0.0E+00	AU116908.1	EST_HUMAN	AU116908 HEMBA1 Homo sapiens cDNA clone HEMBA1000255 5'
11238	24181	37710	9.23	0.0E+00	11424726	NT	Homo sapiens insulin receptor (INSR), mRNA
11244	24187	37716	145.89	0.0E+00	AW804516.1	EST_HUMAN	QV0-LJM0093-170400-191-406 UJM0093 Homo sapiens cDNA
11244	24187	37717	145.89	0.0E+00	AW804516.1	EST_HUMAN	QV0-LJM0093-170400-191-406 UJM0093 Homo sapiens cDNA
11245	24198	37718	3.26	0.0E+00	BF340308.1	EST_HUMAN	602037014F1 NCI_CGAP_Bn84 Homo sapiens cDNA clone IMAGE:4184979 5'
11247	24200	37721	49.67	0.0E+00	BE261209.1	EST_HUMAN	601148357F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3163310 5'
11251	24204	37726	1.74	0.0E+00	AB029040.1	NT	Homo sapiens mRNA for KIAA1117 protein, partial cds

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Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11256	24208	37731	6.12	0.0E+00	U50326.1	NT	Human protein kinase C substrate 80K-H (PRKCSH) gene, exon 15-17
11257	24209	37732	1.72	0.0E+00	Z20656.1	NT	Homo sapiens of cardiac alpha-myosin heavy chain gene
11260	24212	37735	6	0.0E+00	BE773036.1	EST_HUMAN	RC1-FT0134-170700-012-07 FT0134 Homo sapiens cDNA
11260	24212	37736	6	0.0E+00	BE773036.1	EST_HUMAN	RC1-FT0134-170700-012-07 FT0134 Homo sapiens cDNA
11283	24233	37759	89.91	0.0E+00	AA740782.1	EST_HUMAN	ob32e07.s1 NCI_CGAP_K1d5 Homo sapiens cDNA clone IMAGE:1325412 3' similar to contains element
11285	24235	37762	38.54	0.0E+00	AW466922.1	EST_HUMAN	MSR1 repetitive element 1
11291	24241	37768	2.85	0.0E+00	AF252303.1	NT	ha04h04.x1 NCI_CGAP_K1d12 Homo sapiens cDNA clone IMAGE:2872759 3'
11304	24254	37780	1.84	0.0E+00	BE268478.1	EST_HUMAN	Homo sapiens signaling lymphocytic activation molecule (SLAM) gene, exon 2
11304	24254	37781	1.84	0.0E+00	BE268478.1	EST_HUMAN	601192748F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3536867 5'
11307	24257	37783	7.6	0.0E+00	C05089.1	EST_HUMAN	601192748F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3536867 5'
11313	24263	37789	1.91	0.0E+00	AA746375.1	EST_HUMAN	C05089 Human heart cDNA (Ynakamura) Homo sapiens cDNA clone 3NH04817
11313	24263	37790	1.91	0.0E+00	AA746375.1	EST_HUMAN	ca58h01.r1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1309009 5'
11321	24271	37798	1.66	0.0E+00	BF353825.1	EST_HUMAN	ca58h01.r1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1309009 5'
11322	24272	37799	5.79	0.0E+00	AL157608.1	EST_HUMAN	ca58h01.r1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1309009 5'
11333	24283	37807	6.83	0.0E+00	AU116998.1	EST_HUMAN	QV2-H0098-020600-295-d07 HT0698 Homo sapiens cDNA
11347	24297	37825	1.54	0.0E+00	AU132437.1	EST_HUMAN	DKFZp761J2116.r1 761 (synonym: hary2) Homo sapiens cDNA clone DKFZp761J2116 5'
11367	18868	32047	2.84	0.0E+00	AB035266.1	NT	AU116998 HEMBA1 Homo sapiens cDNA clone HEMBA1000424 5'
11371	24318	37846	2.4	0.0E+00	BE182360.1	EST_HUMAN	AU132437 NT2RP3 Homo sapiens cDNA clone NT2RP3004422 5'
11371	24318	37847	2.4	0.0E+00	BE182360.1	EST_HUMAN	Homo sapiens mRNA for neurexin II, complete cds
11372	24319	37847	1.48	0.0E+00	AV701152.1	EST_HUMAN	Homo sapiens mRNA for neurexin II, complete cds
11387	24334	37863	75.44	0.0E+00	AW406380.1	EST_HUMAN	PM0-H0845-060500-002-E05 HT0845 Homo sapiens cDNA
11390	24336	37865	2.81	0.0E+00	BE898423.1	EST_HUMAN	PM0-H0845-060500-002-E05 HT0845 Homo sapiens cDNA
11397	24342	37874	2.26	0.0E+00	AW500307.1	EST_HUMAN	UI-HF-BNO-akg-d-02-Q-U1.r1 NIH_MGC_50 Homo sapiens cDNA clone ADAAD06 5'
11397	24342	37875	2.26	0.0E+00	AW500307.1	EST_HUMAN	UI-HF-BNO-akg-d-02-Q-U1.r1 NIH_MGC_50 Homo sapiens cDNA clone ADAAD06 5'
11398	24343	37878	7.11	0.0E+00	BE018293.1	EST_HUMAN	UI-HF-BLO-acs-c-06-Q-U1.r1 NIH_MGC_37 Homo sapiens cDNA clone IMAGE:3060089 5'
11417	24361	37896	14.52	0.0E+00	X59314.1	NT	601439092F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3924142 5'
11421	24365	37900	2.3	0.0E+00	AU121877.1	EST_HUMAN	UI-HF-BNO-akg-d-02-Q-U1.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3077019 5'
11430	24374	37913	4.14	0.0E+00	BE897953.1	EST_HUMAN	UI-HF-BNO-akg-d-02-Q-U1.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3077019 5'
11431	24375	37914	1.58	0.0E+00	AI459545.1	EST_HUMAN	bb78c04.y1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3048486 5' similar to gb:Y00345_cds1
11431	24375	37915	1.58	0.0E+00	AI459545.1	EST_HUMAN	POLYADENYLATE-BINDING PROTEIN (HUMAN); gb:X65553 M.musculus mRNA for poly(A) binding protein (MOUSE);
							H sapiens gene for Ig kappa light chain variable region "011"
							AU121677 MAMMA1 Homo sapiens cDNA clone MAMMA1000731 5'
							601440446F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3925403 5'
							ac86g11.x1 Schiller merlingloria Homo sapiens cDNA clone IMAGE:1952804 3'
							ac86g11.x1 Schiller merlingloria Homo sapiens cDNA clone IMAGE:1952804 3'

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11441	24384	37924	4.93	0.0E+00	AL042278.1	EST_HUMAN	DKFZp434L0120_1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434L0120 5'
11446	24389	37931	4.18	0.0E+00	F00884.1	EST_HUMAN	HSB77E122 STRATAGENE Human skeletal muscle cDNA library, cat. #936215. Homo sapiens cDNA clone 77E12
11446	24389	37932	4.18	0.0E+00	F00884.1	EST_HUMAN	HSB77E122 STRATAGENE Human skeletal muscle cDNA library, cat. #936215. Homo sapiens cDNA clone 77E12
11474	24417	37967	2.85	0.0E+00	4758827	NT	Homo sapiens neuraxin III (NRXN3) mRNA
11475	24418	37968	3.38	0.0E+00	BF208561.1	EST_HUMAN	601870602F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4101433 5'
11478	24421	37970	12.88	0.0E+00	AW207734.1	EST_HUMAN	UI-H-B12-agg-h-01-Q-J1.s1 NCI_CGAP_Sub4 Homo sapiens cDNA clone IMAGE:2724312 3'
11479	24422	37971	5.09	0.0E+00	AW604975.1	EST_HUMAN	RC0-CT0380-210100-032-c10 CT0380 Homo sapiens cDNA
11479	24422	37972	5.09	0.0E+00	AW604975.1	EST_HUMAN	RC0-CT0380-210100-032-c10 CT0380 Homo sapiens cDNA
11483	24426	37975	2.91	0.0E+00	AB018280.1	NT	Homo sapiens mRNA for KIAA0717 protein, partial cds
11483	24426	37976	2.91	0.0E+00	AB018280.1	NT	Homo sapiens mRNA for KIAA0717 protein, partial cds
11484	24427	37977	3.54	0.0E+00	BE206846.1	EST_HUMAN	ba04407.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823373 5' similar to TR:O76022 O76022 E1B-5KDA-ASSOCIATED PROTEIN.
11484	24427	37978	3.54	0.0E+00	BE206846.1	EST_HUMAN	ba04407.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823373 5' similar to TR:O76022 O76022 E1B-5KDA-ASSOCIATED PROTEIN.
11506	24448	37998	2.13	0.0E+00	11024711	NT	Homo sapiens myosin, heavy polypeptide 4, skeletal muscle (MYH4), mRNA
11509	20670	34037	1.92	0.0E+00	L32832.1	NT	Homo sapiens zinc finger homeodomain protein (ATBF1-A) mRNA, complete cds
11513	24454	38003	3.74	0.0E+00	BE148076.1	EST_HUMAN	RC3-H10230-040500-110-h04 HT0230 Homo sapiens cDNA
11513	24454	38004	3.74	0.0E+00	BE148076.1	EST_HUMAN	RC3-H10230-040500-110-h04 HT0230 Homo sapiens cDNA
11523	24484	38017	7.64	0.0E+00	AA195905.1	EST_HUMAN	zp95b11.r1 Stratagene muscle 937209 Homo sapiens cDNA clone IMAGE:627933 5' similar to gb:X03740 MYOSIN HEAVY CHAIN, SKELETAL MUSCLE (HUMAN);
11531	24472	38023	1.51	0.0E+00	AW673469.1	EST_HUMAN	ba54408.v3 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2900367 5' similar to TR:O60275 O60275 KIAA0522 PROTEIN;
11531	24472	38024	1.51	0.0E+00	AW673469.1	EST_HUMAN	ba54408.v3 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2900367 5' similar to TR:O60275 O60275 KIAA0522 PROTEIN;
11549	24490	38046	5.23	0.0E+00	BF507876.1	EST_HUMAN	UI-H-B14-ack-b-10-Q-J1.s1 NCI_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3085026 3'
11549	24490	38047	5.23	0.0E+00	BF507876.1	EST_HUMAN	UI-H-B14-ack-b-10-Q-J1.s1 NCI_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3085026 3'
11556	24496	38052	3.54	0.0E+00	AU135170.1	EST_HUMAN	AU135170 PLACE1 Homo sapiens cDNA clone PLACE1001381 5'
11560	24500	38056	1.84	0.0E+00	BF576138.1	EST_HUMAN	602132459F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4271630 5'
11560	24500	38057	1.84	0.0E+00	BF576138.1	EST_HUMAN	602132459F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4271630 5'
11561	24501	38058	17.24	0.0E+00	BE876401.1	EST_HUMAN	601486828F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3889207 5'
11561	24501	38059	17.24	0.0E+00	BE876401.1	EST_HUMAN	601486828F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3889207 5'
11567	24507	38064	2.9	0.0E+00	D87882.1	NT	Human mRNA for KIAA0241 gene, partial cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11571	24510		5.42	0.0E+00	BF240536.1	EST_HUMAN	601875630F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:4099710 5'
11582	24520	38076	1.68	0.0E+00	AB037737.1	NT	Homo sapiens mRNA for KIAA1316 protein, partial cds
11582	24520	38078	1.68	0.0E+00	AB037737.1	NT	Homo sapiens mRNA for KIAA1316 protein, partial cds
11586	24524	38079	3.41	0.0E+00	11430868	NT	Homo sapiens retinoblastoma-like 2 (p130) (RBL2), mRNA
11586	24524	38080	3.41	0.0E+00	11430868	NT	Homo sapiens retinoblastoma-like 2 (p130) (RBL2), mRNA
11590	24528	38085	2.06	0.0E+00	BE122764.1	EST_HUMAN	23_08 Human Epidermal Keratinocyte Subtraction Library: Upregulated Transcripts Homo sapiens cDNA clone 23_08 5' similar to Homo sapiens cyclin B2 (CCNB2)
11591	24529	38086	3.23	0.0E+00	BE017960.1	EST_HUMAN	bb73h05.y1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3048057 5' similar to SW:CD97_HUMAN
11595	24533	38089	2.69	0.0E+00	AA772837.1	EST_HUMAN	P49960 LEUCOCYTE ANTIGEN CD97 PRECURSOR, [1];
11605	24543	38103	6.4	0.0E+00	4503544	NT	ae74g04.s1 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:969942 3'
11612	24550	38110	2.25	0.0E+00	BF576267.1	EST_HUMAN	Homo sapiens eukaryotic translation initiation factor 5A (EIF5A) mRNA
11615	24553	38114	5.5	0.0E+00	AW328173.1	EST_HUMAN	602134132F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4289502 5'
11620	24558		83.29	0.0E+00	M55083.1	NT	af04g05.x1 NIH_MGC_3 Homo sapiens cDNA clone IMAGE:2847177 5'
11624	24562	38123	159.29	0.0E+00	AI660968.1	EST_HUMAN	Human gamma actin-like pseudogene, complete cds
11625	24563	38124	2.3	0.0E+00	BF306996.1	EST_HUMAN	wf20a11.x1 Soares, Dieckgraefe, cdon, NHLUC Homo sapiens cDNA clone IMAGE:2351180 3' similar to gb:M87789 IG GAMMA-1 CHAIN C REGION (HUMAN);
11625	24563	38125	2.3	0.0E+00	BF306996.1	EST_HUMAN	601889823F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4123948 5'
11632	24569	38133	59.51	0.0E+00	BF362482.1	EST_HUMAN	601889823F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4123948 5'
11648	24585	38154	2.42	0.0E+00	U36264.1	NT	QV2-NN0054-230800-333-e04 NN0054 Homo sapiens cDNA
11654	24591	38155	2.42	0.0E+00	U36264.1	NT	Human beta-prime-adaptin (BAM22) gene, exon 16
11654	24591	38155	4.74	0.0E+00	BE637031.1	EST_HUMAN	Human beta-prime-adaptin (BAM22) gene, exon 16
11665	24601	38177	1.54	0.0E+00	8923698	NT	Homo sapiens golgin-like protein (GLP), mRNA
11668	24604		2.24	0.0E+00	BF207662.1	EST_HUMAN	601861947F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:4081715 5'
11669	24605		4.82	0.0E+00	BE257744.1	EST_HUMAN	601116705F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3357384 5'
11682	24648	38225	4.13	0.0E+00	BE206846.1	EST_HUMAN	ba04407.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823373 5' similar to TR:O76022 O76022 E1B-55KDA-ASSOCIATED PROTEIN ;
11682	24648	38226	4.13	0.0E+00	BE206846.1	EST_HUMAN	ba04407.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823373 5' similar to TR:O76022 O76022 E1B-55KDA-ASSOCIATED PROTEIN ;
11684	24650	38228	3.8	0.0E+00	AW753028.1	EST_HUMAN	QV0-CT0225-101299-071-f06 CT0225 Homo sapiens cDNA
11689	24655		4.96	0.0E+00	AA558707.1	EST_HUMAN	nl42c08.s1 NCL_CGAP_P4 Homo sapiens cDNA clone IMAGE:1043342 similar to gb:M95178 ALPHA-ACTININ 1, CYTOSKELETAL ISOFORM (HUMAN);
11690	18451	31322	3.12	0.0E+00	AI934954.1	EST_HUMAN	wp08g08.x1 NCL_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2484084 3'
11691	24656	38234	9.26	0.0E+00	AW327895.1	EST_HUMAN	af02b08.x1 NIH_MGC_3 Homo sapiens cDNA clone IMAGE:2846919 5'

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11711	25706	38254	1.63	0.0E+00	AW29276.1	EST_HUMAN	U14-BW0-aj-d-07-0-U.s1 NCL CGAP_Sub6 Homo sapiens cDNA clone IMAGE:2729509 3'
11718	23915	37432	2.09	0.0E+00	4768827	NT	Homo sapiens neuroxin III (NRXN3) mRNA
11724	24610	38186	2.43	0.0E+00	BE965909.2	EST_HUMAN	601659088R1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3895916 3'
11724	24610	38187	2.43	0.0E+00	BE965909.2	EST_HUMAN	601659088R1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3895916 3'
11725	24611	38188	3.67	0.0E+00	BE185656.1	EST_HUMAN	IL5-H70731-020500-077-405 HT0731 Homo sapiens cDNA
11739	24624	38202	5.4	0.0E+00	AL046540.1	EST_HUMAN	DKFZp434G178_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434G178 5'
11739	24624	38203	5.4	0.0E+00	AL046540.1	EST_HUMAN	DKFZp434G178_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434G178 5'
11746	24631	38211	2.29	0.0E+00	BF082504.1	EST_HUMAN	MR4-BT0358-130900-018-a04 BT0358 Homo sapiens cDNA
11750	24635	38214	19.22	0.0E+00	AI923116.1	EST_HUMAN	wn83g03.x1 NCL CGAP_U11 Homo sapiens cDNA clone IMAGE:2452468 3' similar to gb:S37431 LAMININ RECEPTOR (HUMAN);
11753	24681	38259	8.71	0.0E+00	AA760913.1	EST_HUMAN	nz11607.s1 NCL CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1287468 3' similar to TR:Q13686
11753	24681	38260	8.71	0.0E+00	AA760913.1	EST_HUMAN	Q13686 ALKB HOMOLOG PROTEIN.;
11758	24686	38266	3.51	0.0E+00	BE910546.1	EST_HUMAN	nz11607.s1 NCL CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1287468 3' similar to TR:Q13686
11766	23921	37440	5.45	0.0E+00	BE676347.1	EST_HUMAN	601501090F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3902926 5'
11769	23924	37443	2.02	0.0E+00	BE615666.1	EST_HUMAN	7127112.x1 NCL CGAP_Q3.L1 Homo sapiens cDNA clone IMAGE:3295919 3' similar to TR:000409 D00409 CHECKPOINT SUPPRESSOR 1.;
11769	23924	37444	2.02	0.0E+00	BE615666.1	EST_HUMAN	601279335F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3611144 5'
11777	23932	37453	2.13	0.0E+00	AV757420.1	EST_HUMAN	601279335F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3611144 5'
11808	24693	38273	5.01	0.0E+00	L39891.1	NT	AV757420 BM Homo sapiens cDNA clone BMFAGH03 5'
11808	24693	38274	5.01	0.0E+00	L39891.1	NT	Homo sapiens polycystic kidney disease-associated protein (PKD1) gene, complete cds
11822	24705	38287	3.67	0.0E+00	AL138211.1	EST_HUMAN	Homo sapiens polycystic kidney disease-associated protein (PKD1) gene, complete cds
11835	24718	38304	5.81	0.0E+00	BE622317.1	EST_HUMAN	AU138211 PLACE1 Homo sapiens cDNA clone PLACE1008077 5'
11860	24742	38326	2.22	0.0E+00	AI939834.1	EST_HUMAN	AU1441096F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3916270 5'
11868	24750	38332	14.23	0.0E+00	BE748899.1	EST_HUMAN	tn94c10.x5 NCL CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2165778 3'
11868	24750	38333	14.23	0.0E+00	BE748899.1	EST_HUMAN	601572186T1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:3839012 3'
11877	24759	38343	2.54	0.0E+00	AU141882.1	EST_HUMAN	601572186T1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:3839012 3'
11877	24759	38344	2.54	0.0E+00	AU141882.1	EST_HUMAN	AU141882 THYRO1 Homo sapiens cDNA clone THYRO1001398 5'
11890	24762	38347	1.97	0.0E+00	AW006022.1	EST_HUMAN	AU141882 THYRO1 Homo sapiens cDNA clone THYRO1001398 5'
11882	25707	38349	2.38	0.0E+00	BF002333.1	EST_HUMAN	wz91101.x1 NCL CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2566225 3' similar to WP:F53H10.2
11899	24780	38366	1.48	0.0E+00	AL043705.1	EST_HUMAN	CE11040 ZINC FINGER, C2H2 TYPE.;
							7h22b10.x1 NCL CGAP_Co16 Homo sapiens cDNA clone IMAGE:3316699 3' similar to TR:Q13458 Q13458 TRIO.;
							DKFZp434L1227_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434L1227 5'

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Table 4
Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11899	24780	38367	1.48	0.0E+00	AL043705.1	EST_HUMAN	DKFZp434L1227_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434L1227 5'
11904	24785	38374	3.36	0.0E+00	AW387776.1	EST_HUMAN	MR4-ST0118-261099-012-003 ST0118 Homo sapiens cDNA
11904	24785	38375	3.36	0.0E+00	AW387776.1	EST_HUMAN	MR4-ST0118-261099-012-003 ST0118 Homo sapiens cDNA
11916	24797		2.43	0.0E+00	AW863777.1	EST_HUMAN	MR3-SN0010-310300-107-003 SN0010 Homo sapiens cDNA
11927	24808	38402	4.22	0.0E+00	11435244	NT	Homo sapiens KIAA0247 gene product (KIAA0247), mRNA
11927	24808	38403	4.22	0.0E+00	11435244	NT	Homo sapiens KIAA0247 gene product (KIAA0247), mRNA
11932	24813	38409	5.01	0.0E+00	U36253.1	NT	Human beta-prime-adaptin (BAM22) gene, exon 5
11934	24815	38411	2.03	0.0E+00	BE379254.1	EST_HUMAN	601237691F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3609623 5'
11934	24815	38412	2.03	0.0E+00	BE379254.1	EST_HUMAN	601237691F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3609623 5'
11946	20655	34019	2.41	0.0E+00	AA211963.1	EST_HUMAN	zn56f02_r1 Stralagene muscle 937209 Homo sapiens cDNA clone IMAGE:562203 5' similar to gb:X03740 MYOSIN HEAVY CHAIN, SKELETAL MUSCLE (HUMAN);
11947	24826	38421	2.36	0.0E+00	AA488894.1	EST_HUMAN	aa55g11.1 NCI CGAP_G0581 Homo sapiens cDNA clone IMAGE:824900 3' similar to gb:M37768 B-LYMPHOCYTE ACTIVATION MARKER BLAST-1 PRECURSOR (HUMAN);
11952	24831	38427	2.35	0.0E+00	BE794758.1	EST_HUMAN	601590588F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3944708 5'
11953	24832	38428	160.82	0.0E+00	BE878633.1	EST_HUMAN	601491821F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3894220 5'
11955	24844	38439	12.55	0.0E+00	BE409993.1	EST_HUMAN	601299403F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3629544 5'
11966	24845	38440	2.25	0.0E+00	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
11966	24845	38441	2.25	0.0E+00	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
11967	18647	31589	2.21	0.0E+00	D26535.1	NT	Human gene for dihydropyrimidine succinyltransferase, complete cds (exon 1-15)
11967	18647	31590	2.21	0.0E+00	D26535.1	NT	Human gene for dihydropyrimidine succinyltransferase, complete cds (exon 1-15)
11968	24846	38442	4.01	0.0E+00	BF681841.1	EST_HUMAN	602156722F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4296725 5'
11968	24846	38443	4.01	0.0E+00	BF681841.1	EST_HUMAN	602156722F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4296725 5'
11974	18348	31294	1.51	0.0E+00	AF272963.1	NT	Homo sapiens gephyrin mRNA, complete cds
11976	24853	38451	1.57	0.0E+00	AU132940.1	EST_HUMAN	AU132940 NT2RP4 Homo sapiens cDNA clone NT2RP4000929 5'
11979	24856	38453	4.83	0.0E+00	BE603372.1	EST_HUMAN	601676357F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3959835 5'
11992	24859	38464	3.47	0.0E+00	BF312552.1	EST_HUMAN	601897524F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4127069 5'
11992	24869	38465	3.47	0.0E+00	BF312552.1	EST_HUMAN	601897524F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4127069 5'
11994	24871	38467	34.13	0.0E+00	X51755.1	NT	Human lambda-immunoglobulin constant region complex (germline)
11994	24871	38468	34.13	0.0E+00	X51755.1	NT	Human lambda-immunoglobulin constant region complex (germline)
12006	24883		3.04	0.0E+00	BE906402.1	EST_HUMAN	601498553F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3900396 5'
12007	24884	38479	1.52	0.0E+00	BE92690.1	EST_HUMAN	601433908F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3919321 5'
12035	25708		56.85	0.0E+00	BF309120.1	EST_HUMAN	601890534F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4131418 5'

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Table 4
Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12037	24912	38505	2.38	0.0E+00	BE698861.1	EST_HUMAN	RC4-NN0025-120600-016-507 NN0025 Homo sapiens cDNA
12037	24912	38506	2.38	0.0E+00	BE698861.1	EST_HUMAN	RC4-NN0025-120600-016-507 NN0025 Homo sapiens cDNA
12040	24915	38509	60.15	0.0E+00	BE297175.1	EST_HUMAN	601177407F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3532968 5'
12048	24921	38517	1.81	0.0E+00	BE744311.1	EST_HUMAN	601576525F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3837222 5'
12048	24921	38518	1.81	0.0E+00	BE744311.1	EST_HUMAN	601576525F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3837222 5'
12062	24935	38531	1.81	0.0E+00	7689505	NT	Homo sapiens myosin, heavy polypeptide 1, skeletal muscle, adult (MYH1), mRNA
12062	24935	38532	1.81	0.0E+00	7689505	NT	Homo sapiens myosin, heavy polypeptide 1, skeletal muscle, adult (MYH1), mRNA
12067	24940	38535	1.68	0.0E+00	11024711	NT	Homo sapiens myosin, heavy polypeptide 4, skeletal muscle (MYH4), mRNA
12071	24944	38537	2.41	0.0E+00	F00884.1	EST_HUMAN	HSB77E122 STRATAGENE Human skeletal muscle cDNA library, cat. #836215. Homo sapiens cDNA clone
12071	24944	38538	2.41	0.0E+00	F00884.1	EST_HUMAN	HSB77E122 STRATAGENE Human skeletal muscle cDNA library, cat. #836215. Homo sapiens cDNA clone
12077	24949	38544	6.46	0.0E+00	BE545535.1	EST_HUMAN	601070391F1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3456407 5'
12080	24952	38547	3.24	0.0E+00	AU117974.1	EST_HUMAN	AU117974 HEMBA1 Homo sapiens cDNA clone HEMBA1002612 5'
12080	24952	38548	3.24	0.0E+00	AU117974.1	EST_HUMAN	AU117974 HEMBA1 Homo sapiens cDNA clone HEMBA1002612 5'
12118	24988	38590	2.15	0.0E+00	Z20656.1	NT	Homo sapiens of cardiac alpha-myosin heavy chain gene
12124	24993	38595	2.27	0.0E+00	BE264998.1	EST_HUMAN	601193827F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3537774 5'
12124	24993	38596	2.27	0.0E+00	BE264998.1	EST_HUMAN	601193827F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3537774 5'
12131	25000	38605	6.45	0.0E+00	11419020	NT	Homo sapiens nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, epsilon (NFKBIE), mRNA
12131	25000	38606	6.45	0.0E+00	11419020	NT	Homo sapiens nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, epsilon (NFKBIE), mRNA
12146	25072	31299	1.81	0.0E+00	BE312542.1	EST_HUMAN	601150023F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3503020 5'
12161	25819		1.43	0.0E+00	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
12163	25828		6.62	0.0E+00	AI190993.1	EST_HUMAN	q617b12.x1 Soares_fetal_lung_NHL19W Homo sapiens cDNA clone IMAGE:1739231 3'
12173	25022		1.33	0.0E+00	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
12192	25037		2.28	0.0E+00	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
12201	25044		5.82	0.0E+00	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12218	25056		3.47	0.0E+00	5802973	NT	Homo sapiens antioxidant protein 1 (AOP1), nuclear gene encoding mitochondrial protein, mRNA
12251	25788	31523	2.06	0.0E+00	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
12265	25798		4.42	0.0E+00	AL041931.1	EST_HUMAN	DKFZp434K0819_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434K0819 5'
12291	25940		3.76	0.0E+00	11418318	NT	Homo sapiens G-2 and S-phase expressed 1 (GTSE1), mRNA
12299	25110		5.96	0.0E+00	AL046544.1	EST_HUMAN	DKFZp434G218_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434G218 5'

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12314	25834		1.98	0.0E+00	AI903497.1	EST_HUMAN	IL-BT030-271098-001 BT030 Homo sapiens cDNA
12357	25962		1.82	0.0E+00	N64484.1	EST_HUMAN	y40e08.s1 Soares fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE:245222 3' similar to SW:POL BAEVM P10272 POL POLYPROTEIN :
12371	25157		5.99	0.0E+00	AF106658.1	NT	Homo sapiens adenylosuccinate lyase gene, complete cds
12374	13900	26857	3.44	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
12374	13900	26858	3.44	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
12383	25837		2.56	0.0E+00	10092587	NT	Homo sapiens nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 2 (NFATC2), mRNA
12411	13620		2.52	0.0E+00	AF003528.1	NT	Homo sapiens X-linked anhidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
12504	25787	31621	3.54	0.0E+00	AW590082.1	EST_HUMAN	hg31e06.x1 NCL_CGAP_GC8 Homo sapiens cDNA clone IMAGE:2847234 3' similar to contains Alu repetitive element; contains element MER22 repetitive element ;
12534	25797		1.41	0.0E+00	L20493.1	NT	Human gamma-glutamyl transpeptidase mRNA, complete cds
12561	25831		2.82	0.0E+00	AF068757.1	NT	Homo sapiens somatostatin receptor subtype 3 (SSTR3) gene, 5' flanking region and partial cds
12597	25300		2.72	0.0E+00	9635487	NT	Human endogenous retrovirus, complete genome
12635	25823		1.47	0.0E+00	AI204914.1	EST_HUMAN	an05h04.x1 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:1684759 3'
12683	15027	28034	1.88	0.0E+00	5912457	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12683	15027	28035	1.88	0.0E+00	5912457	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12701	25361	31787	1.52	0.0E+00	AF036385.1	NT	Homo sapiens caveolin-3 (CAV3) mRNA, complete cds
12712	14723	27705	4.49	0.0E+00	H30132.1	EST_HUMAN	yc59e08.r1 Soares breast 3NbhBst Homo sapiens cDNA clone IMAGE:182246 5' similar to gb:M64089
12712	14723	27706	4.49	0.0E+00	H30132.1	EST_HUMAN	GAMMA-GLUTAMYL TRANSPEPTIDASE 5 PRECURSOR (HUMAN);
12724	25377		52.99	0.0E+00	D50859.1	NT	Human gamma-cytoplasmic actin (ACTGP9) pseudogene
12725	25378	31743	3.63	0.0E+00	11418189	NT	Homo sapiens thyroid autoantigen 70kD (Ku antigen) (G22P1), mRNA
12725	25378	31744	3.63	0.0E+00	11418189	NT	Homo sapiens thyroid autoantigen 70kD (Ku antigen) (G22P1), mRNA
12739	15120	28141	2.42	0.0E+00	4758489	NT	Homo sapiens GTP binding protein 1 (GTPBP1) mRNA
12780	25415		1.39	0.0E+00	AW664959.1	EST_HUMAN	h186a06.x1 Soares NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2879154 3'
12818	25440	31721	1.51	0.0E+00	BE246780.1	EST_HUMAN	TCBAP1E4468 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens cDNA clone TCBAP4468
12827	25446		1.55	0.0E+00	11528291	NT	Homo sapiens hypothetical protein FLJ20454 (FLJ20454), mRNA
12849	18338	31287	3.07	0.0E+00	4885312	NT	Homo sapiens G protein-coupled receptor 24 (GPR24), mRNA
12858	18348	31292	1.88	0.0E+00	6808918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
12863	25466		2.17	0.0E+00	AB029900.1	NT	Homo sapiens CST gene for cerebroside sulfotransferase, exon 1, 2, 3, 4, 5

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Table 4
Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12902	25488	31733	2.53	0.0E+00	9558724	NT	Homo sapiens cleavage and polyadenylation specific factor 1, 160kD subunit (CPSF1), mRNA
12927	25984		3.32	0.0E+00	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
12935	13692	28609	2.65	0.0E+00	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
12986	14499	27473	1.32	0.0E+00	6912457	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
13018	25568		3.02	0.0E+00	7657020	NT	Homo sapiens DKFZp434P211 protein (DKFZP434P211), mRNA
13051	25590	31685	1.36	0.0E+00	8567387	NT	Homo sapiens period (Drosophila) homolog 3 (PER3), mRNA
13082	26613		1.63	0.0E+00	X57147.1	NT	Human endogenous retrovirus pHE.1 (ERV9)
13103	14203	27158	1.4	0.0E+00	9966844	NT	Homo sapiens chromosome 12 open reading frame 3 (C12ORF3), mRNA

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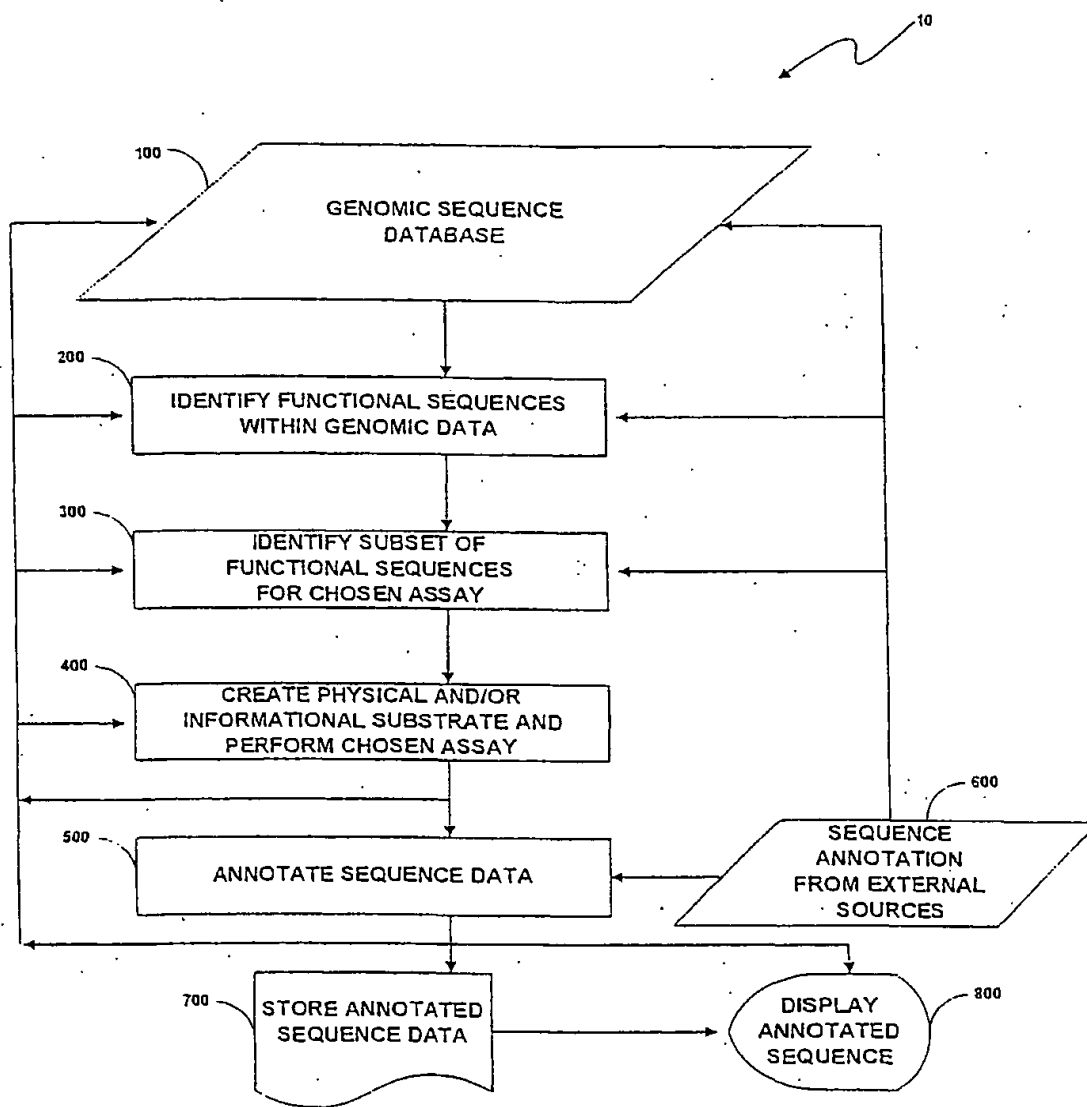


Fig. 1

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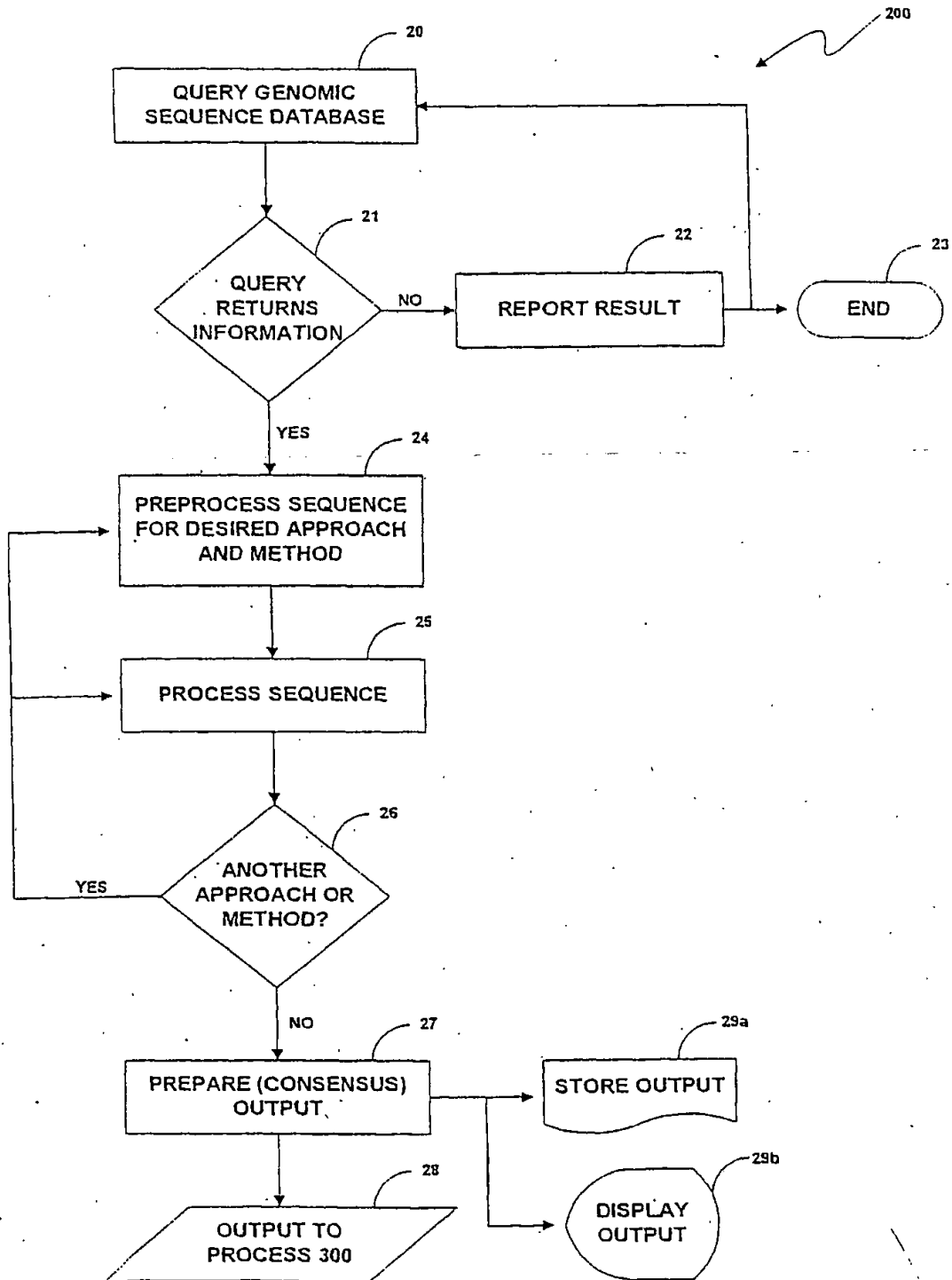


Fig. 2

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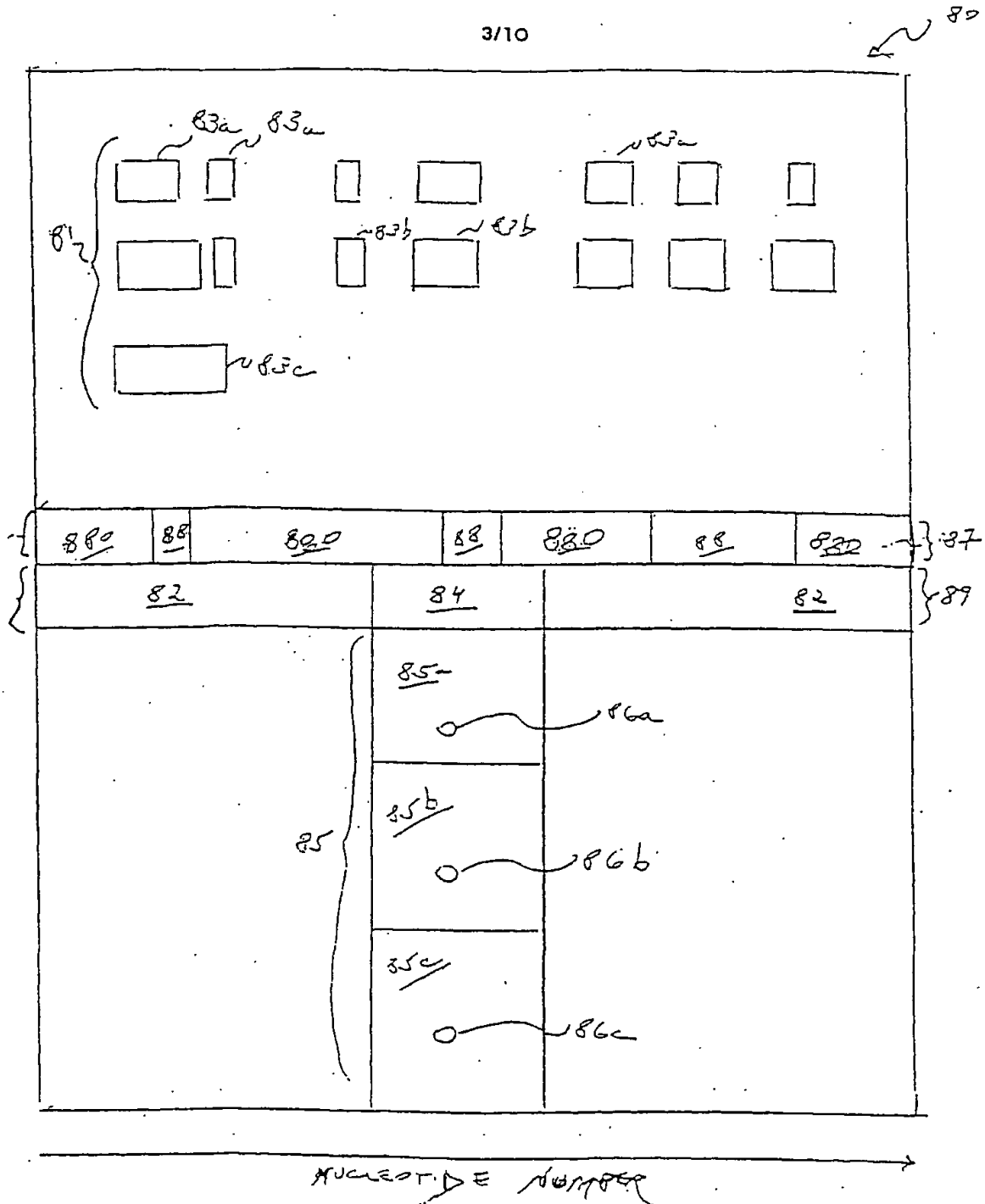


Fig. 3

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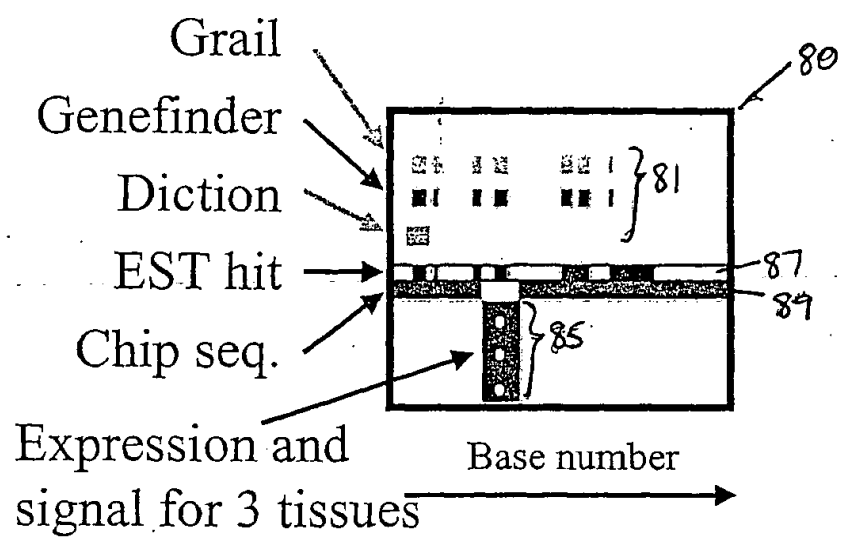


Fig. 4

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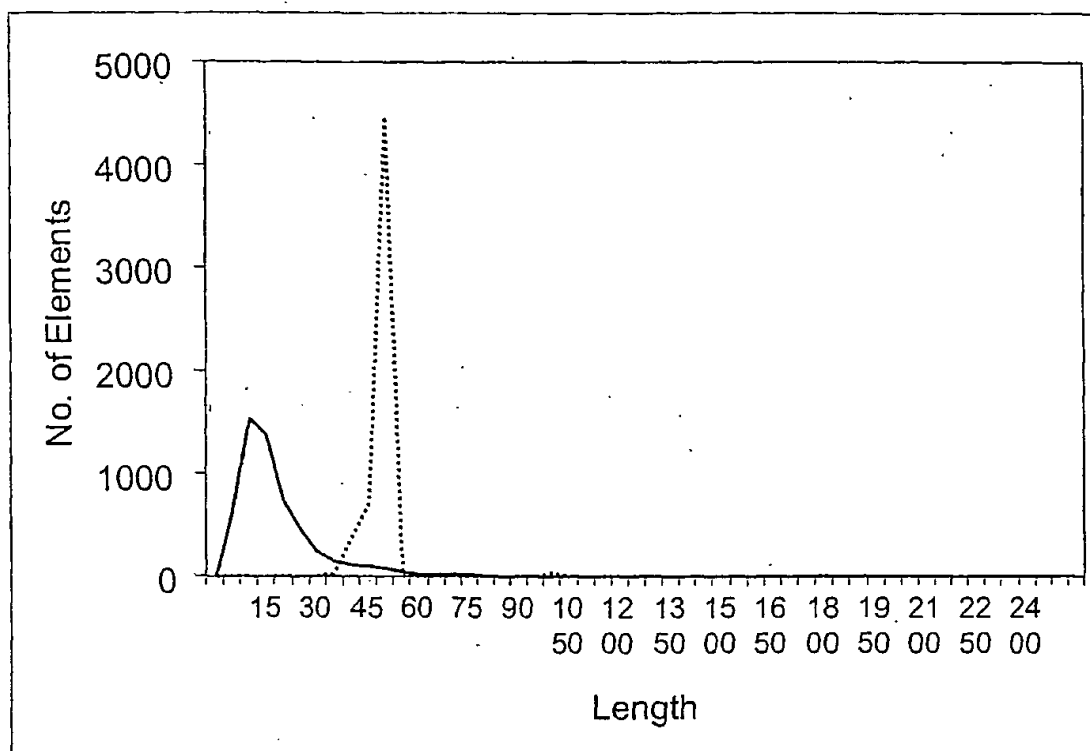


Fig. 5

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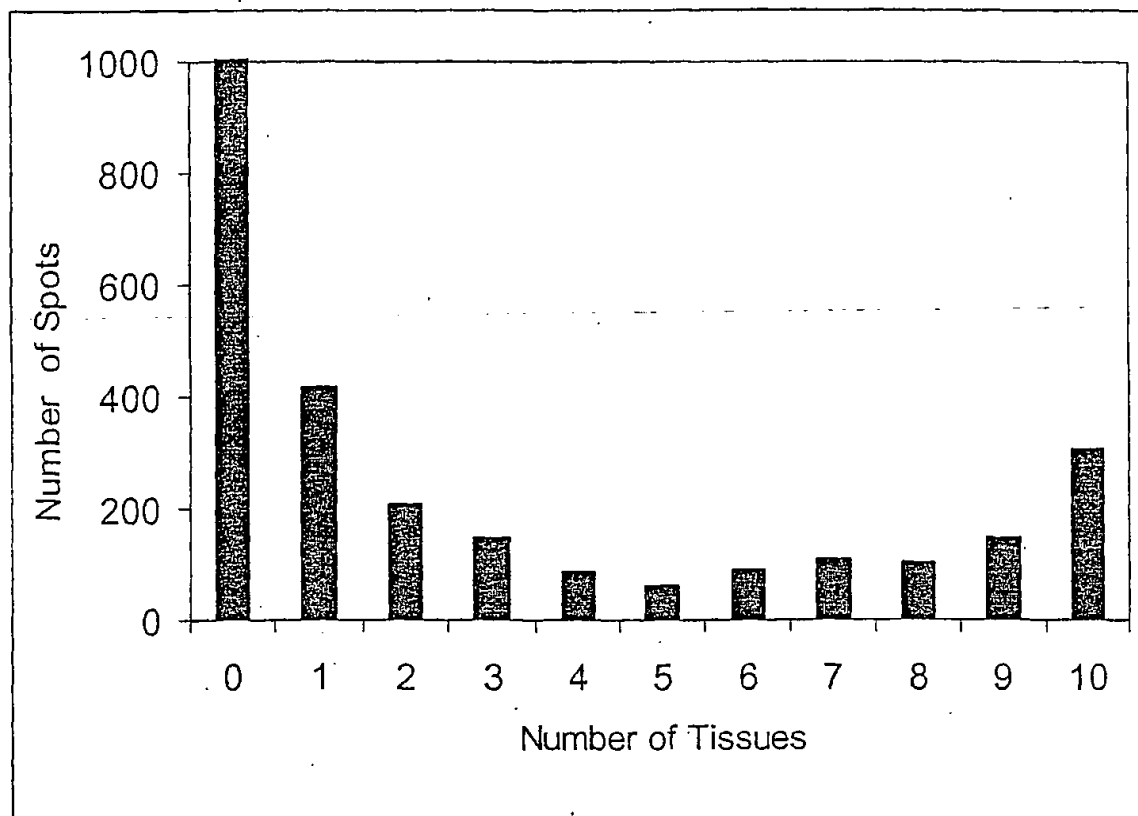
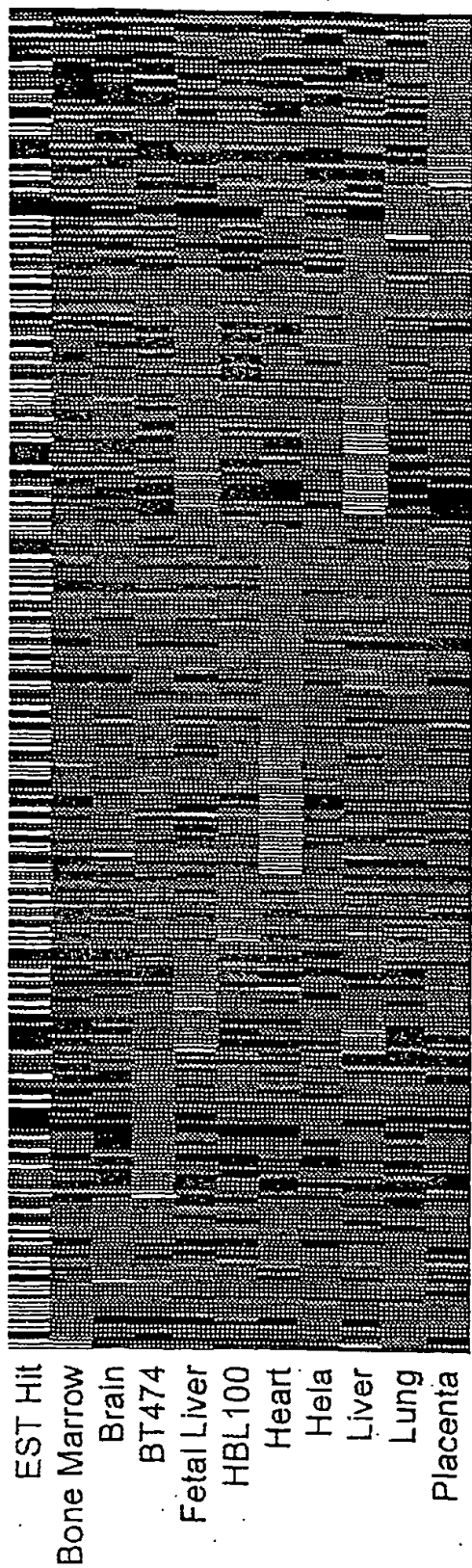


Fig. 6

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EST Hit
Bone Marrow
Brain
BT474
Fetal Liver
HBL100
Heart
Hela
Liver
Lung
Placenta

Fig. 7a

ratio legend

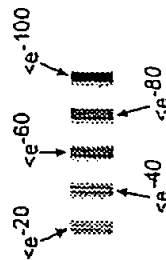
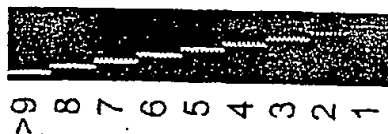


Fig. 7b

Fig. 7c

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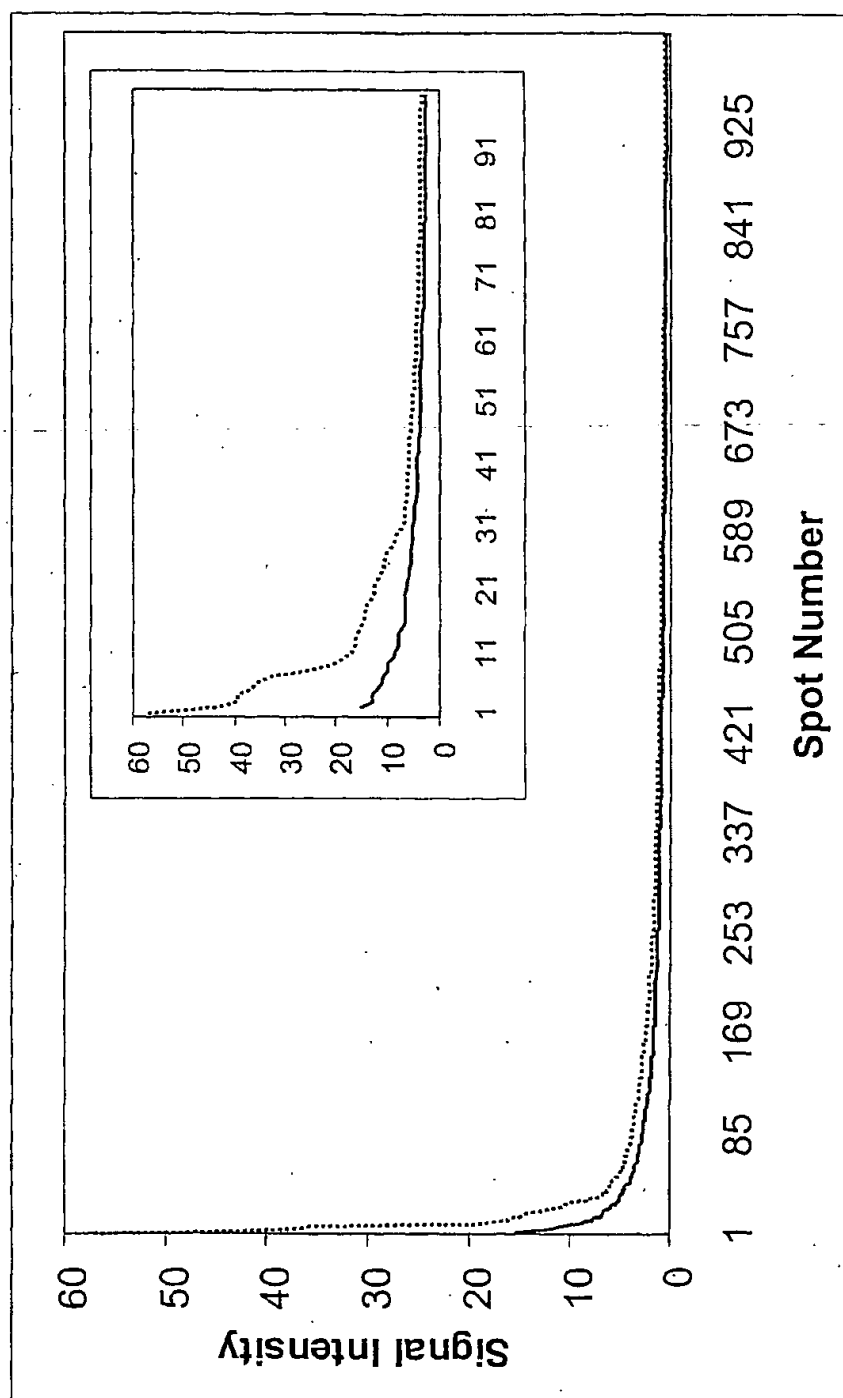


Fig. 8

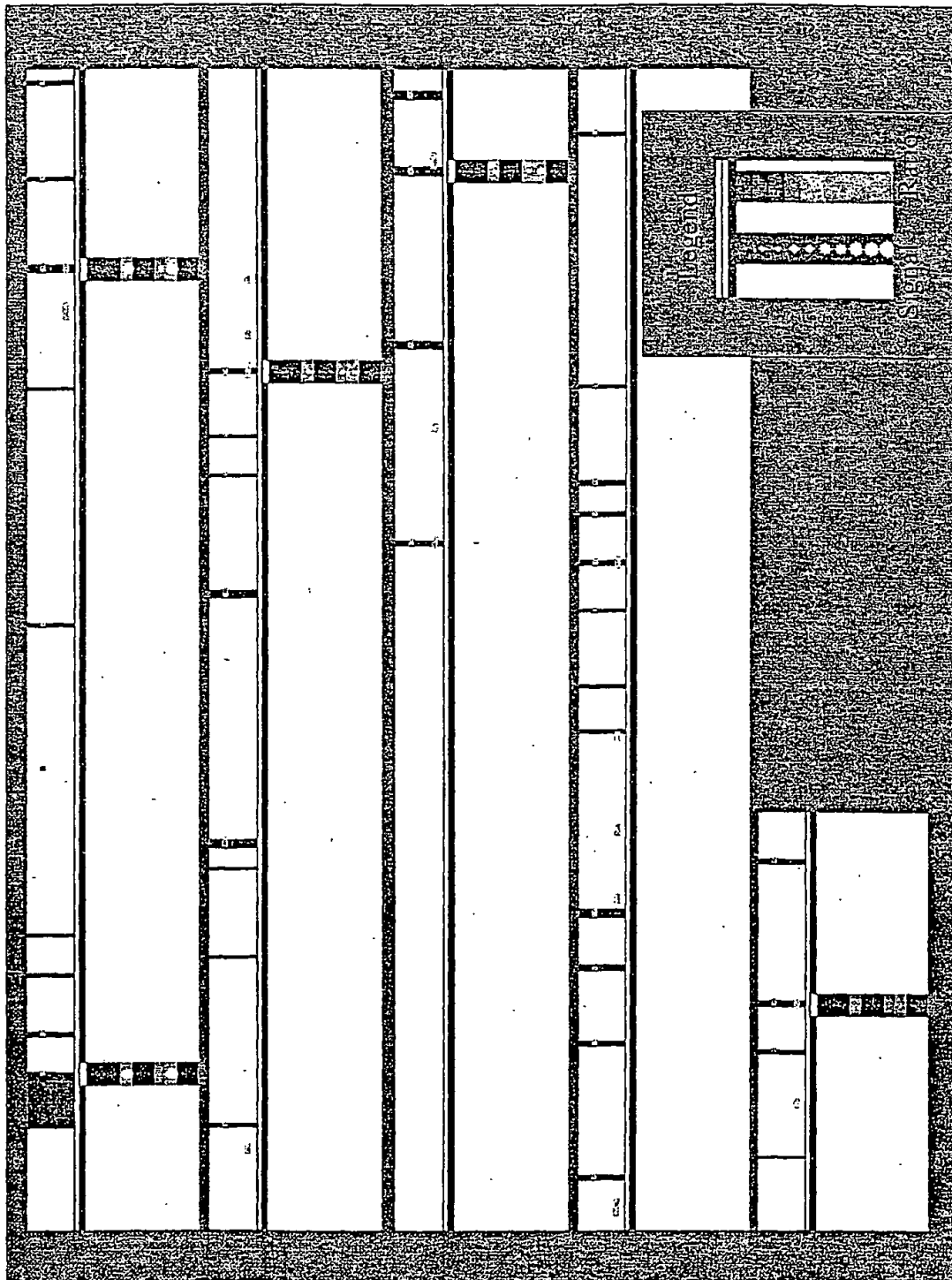


Fig. 9

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Fig. 10

